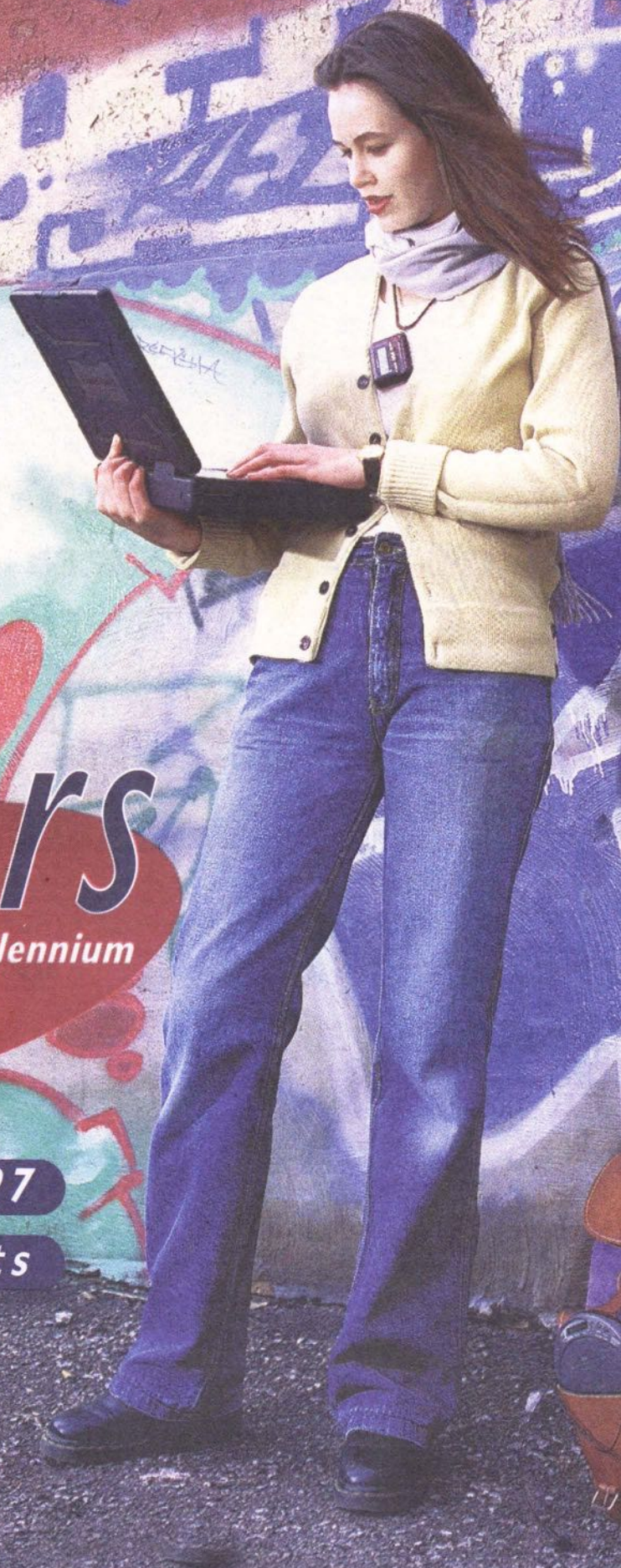


COMPUTER! PLAYER!

CANADA COMPUTES! B.C. EDITION



careers

- Hot jobs in the new millennium
- Resumes on the Net
- New ways to work

Office suites for 97

New PC gadgets

FLAT-RATE INTERNET ACCESS \$19.50



Internet Gateway Corp.

<http://www.intergate.bc.ca>

Your **Gateway**
to the **WORLD**

- No Setup Fee
- No Hourly Charges
- No Prime-time Restrictions
- Free Software Kit
- Free Technical Support
- Over 950 33.6Kbps Lines

Included ➡

**Beginner's Guide
to the Internet**



**Internet Access
Insta-Kit**



Call Now:

654-6088



* Some Restrictions May Apply.

Need
On-Site
Service?
Call Us!



AXION INTERNET
Authorized Dealer
Come To See Us!

NU-AGE COMPUTER PLUS

Affordable
Computer &
Communication
Products

COMAX IBM 6x86 166+MHz PCI System

Acer Motherboard w/Triton chipset
16MB of EDO RAM, 256 PB cache
2x16550 UART serial and 1 parallel ports
Mini-tower 15" w/230 watt P/S
Acer 104 enhanced keyboard
3.5" 1.44MB floppy drive
Acer 14" L/R N/I monitor
W.D. 1.2GB EIDE hard drive
S3 PCI bus video card w/1MB DRAM
Acer 8X Enhanced IDE CD-ROM Drive
Acer 16 bit sound card, speakers
Acer 33.6K Internal Voice Fax/Modem
2 button serial mouse

\$1568

Pentium® 166/200 Professional System

Asus Triton Motherboard HX chipset, Pci Bus
32MB EDO RAM, exp. to 128MB, 256 PB cache
Panasonic 1.44MB floppy drive
32 bit EIDE and Floppy controller
2x16550 UART serial & 1 parallel ports
Mid tower 19" with 230 Watt P/S
W.D. 2.1GB EIDE hard drive
104 Key keyboard Acer 14" L/R N/I monitor
ATI 3D 64 bit 2MB RAM video card
Nu-age 2 button serial mouse
For MMX 166/200, add \$198/225

\$1698/1998

Pentium® 100/120/133 starter system

Asus Triton motherboard VX chipset, PCI Bus
16MB EDO RAM exp. to 128MB, 256 PB cache
Panasonic 1.44 MB floppy drive
32 bit EIDE and floppy controller
2x16550 UART serial & 1 parallel ports
Mini-tower 15" with 230 watt P/S
W.D. 1.2GB EIDE hard drive
104 Key keyboard
Acer 14" L/R N/I monitor
Cirrus Logic 64 bit 1MB RAM video card
Nu-age 2 button serial mouse

\$1160/1180/1228

Pentium® Pro 180/200

Asus Pentium Pro Motherboard, PCI
32MB EDO RAM, exp. to 128MB, 256 PB cache
Panasonic 1.44MB floppy drive
32 bit EIDE and Floppy controller
2x16550 UART serial & 1 parallel ports
ATX mini-tower w/CSA P/S
W.D. 2.1GB EIDE hard drive
104 Key keyboard
Acer 15" L/R N/I monitor
ATI 3D Pro turbo 4MB SG RAM
Microsoft J2 button serial mouse

\$2780/2990

Monthly Special WD 1.6GD EIDE HD

\$285.00

Computer Problems

Upgrade 386's, 486's, Monitor Repair,
Hard Drive Upgrades



Notebook

ACERNOTE NOTEBOOK.....\$2,199
Pentium 100, 8MB RAM EDO, 810MB Hard Drive
10.4" dual scan screen, 256K Cache
PCMCIA slot with Windows 95

MEGAHERTZ PCMCIA MODEM 28.8.....\$259

BACKPACK EXTERNAL 8X CDROM.....\$459

BACKPACK 800MB TAPE DRIVE EXT.....\$199

NEC VERSA 6030HNOTEBOOK.....\$5,280
Pentium 133, 16MB RAM EDO, 1.35GB Hard Drive
Active Matrix screen, 256K Cache, PCMCIA slot
with CD ROM, sound card, Windows 95

TOSHIBA 730CDT NOTEBOOK.....\$8,900

Pentium 150, 16MB RAM EDO, 2.02GB Hard Drive
12.1 Active Matrix screen, 256K Cache, PCMCIA slot
with 6x CD ROM, sound card, Windows 95

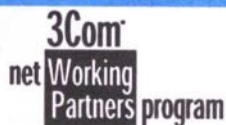
Networking Products

LANtastic AI version 7.0.....\$115
LANtastic Starter kit 7.0.....\$315
Windows Workgroup.....\$169
Windows Workgroup ADD-ON.....\$65
Novell Netware 3.12 (5 user).....\$960
Novell Netware 3.12 (25user).....\$3299
Novell Netware 4.1(25 user).....\$3299
NE2000 Ethernet network card.....\$69
CNET Ethernet card.....\$70
Compex 16 bit Arcnet card.....\$89
Intel Ethernet Pro 16 bit.....\$169
D-link Ethernet pocket adaptor.....\$245
Xircor Ethernet pocket adaptor.....call
D-link Ethernet concentrator.....\$310
Arcnet 93 Ohm Terminator.....\$5
Ethernet 50 Ohm Terminator.....\$5

We support and service:



Trained
and tested
to provide
superior
NetWare
Support



Networking Partner

We support and service:

Novell NetWare
Windows For Workgroups
LANtastic
Windows NT

We're Keeping Up with Your Networking Needs

Multi Media World

Acer 8X CD-ROM.....\$135
Mitsumi 16x CD Rom.....\$189
Panasonic 12X CD Rom.....\$155
Toshiba 12X CD Rom.....\$159

OPTI 16 bit Compatible Sound Crd.....\$35
Sound Blaster 16.....\$95
Phone Blaster 28.8.....\$329
Creative AWE 32 PNP.....\$159
Altec Lansing Speakers From.....\$99

M/S HOME CD ROM PACKAGE

Panasonic/Toshiba 12x
speed CD SB16 bit Sound
Card M/S Encarta Package
2 Shielded Speakers



\$339



3% for Amx payment

BUSINESS HOURS:

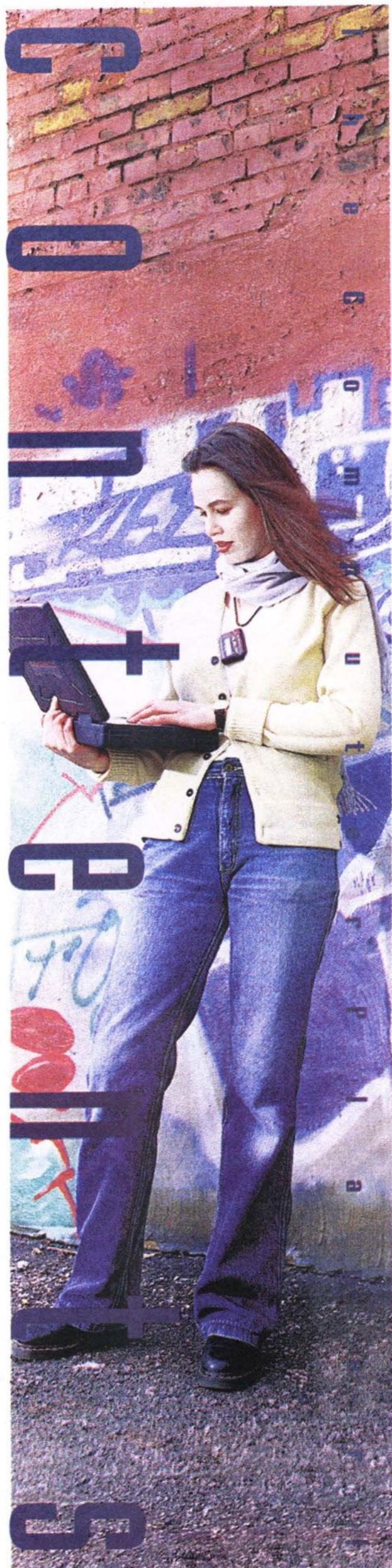
MON-FRI 9:00-6:00

SAT 11:00-5:00

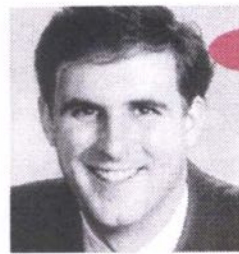
FREE PARKING AT REAR

2 YEAR PARTS & LABOUR WARRANTY ON SYSTEMS.
1 YEAR WARRANTY ON PARTS.
ABOVE PRICES REFLECT 2% CASH DISCOUNT. PRICES
SUBJECT TO CHANGE WITHOUT NOTICE.
AMERICAN EXPRESS ADD 3%.

#6-1128 WEST BROADWAY, VANCOUVER, B.C. V6H 1G5 • TEL: (604) 739-0883 FAX: (604) 739-



Resumes & the Internet:
A pairing with potential



Guest columnist
Jim Harris:
Facing a fast, fluctuating future



The freedom to work all the time

17

A few words on the future of work

21

Overcoming barriers to learning

24

Y2K specialists:
A sellers market

48

Book review:
Get Wired, You're Hired: The Canadian Guide to Job Hunting Online

news - reviews - columns - online

features

- 10 Gadgets and doodads for your computer
- 32 TongueInCheek speaks to the future
- 32 BrainWaves makes waves
- 35 Virus hoaxes: Never-ending stories?
- 35 New *Star Wars* toy stuns the market

news

- 8 Virtual Castelgar: The first Web site of its kind in BC
- 9 Electronic snooping the subject of town-hall meeting
- 25 Bugs aplenty for Microsoft *Explorer*
- 28 Feds introduce cyber-friendly budget
- 29 Mac clones proliferating
- 45 Briefs

software/hardware

- 36 Operating systems: A head-to-head comparison
- 43 Adobe Photoshop, a joy year round
- 43 Photoshop plug-ins add fun
- 43 WordPerfect for Mac
- 50 Slim notebook can bulk up as needed

Profile

- 33 Happy 20th to BC's Basic'ly BBS

multimedia

- 52 Understanding the stock market

- 53 A musician's treasure trove
- 55 All things Canadian on CD-ROM

columns

- 27 Street Buzz: Thieves let their fingers do the walking
- 27 Software: The persistence of DOS
- 56 101: Updating your software
- 57 New Business: Conducting business on the World Wide Web
- 58 OS/2 Ready: The fix is in
- 59 Mac Rant: Gil's big shoe
- 60 Power Learning: Students need real-life skills

games

- 69 Downloadable diversions
- 72 *Tomb Raiders* of the lost ark
- 73 Megalomaniacs rejoice!
- 73 Game contest winner!

online

- 66 Computer theft skyrockets
- 67 Roadmap Part 3: The usenet and its newsgroups
- 68 Howl sites

reader services

- 6 Letters
- 26 *CP!* Calendar of Events
- 65 You Asked Us
- 61 Marketplace
- 62 Chinese section
- 74 Advertisers' Index

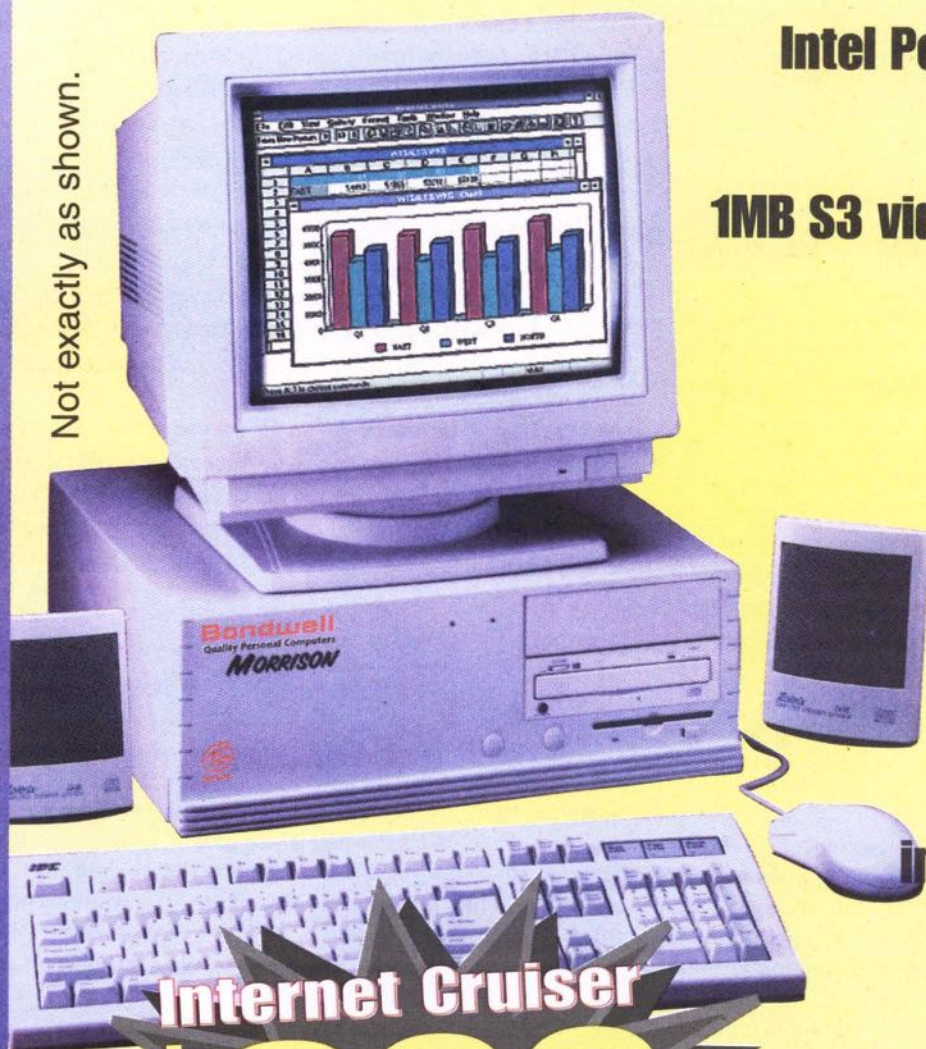
Get On the Internet

Without waiting for the kids to finish.



The Bondwell Morrison - 120
At this price, you can afford two!!

Not exactly as shown.



Intel Pentium® processor - 120MHz

16MB RAM memory

1MB S3 video card • 1.2 GB hard drive

Amplified speakers

16-bit sound card

33.6Kbps Fax.data modem

ISO 9002 certified

Keyboard and mouse

**Microsoft Plus and
Windows 95 pre-loaded**

including manuals and C.O.A.

**One Year Nation-wide depot
parts & labour Warranty**

Monitor not included

Internet Cruiser
\$899
Multimedia System

**Featuring 90 Hours
FREE internet access
from iSTAR**

SPECTACULAR VALUE AVAILABLE EXCLUSIVELY FROM:

Abbotsford . . . MS Computer Services604.852.8337	North Delta . . . Reboot Computers604.543.4240
Cloverdale Microwest Computers604.576.4161	Vancouver ABC Hi-Tec Computers604.688.4222
Mission Belles Computers604.826.8050	Vancouver ATIC Advance Technology604.875.8859
North Delta Amritech Computer Systems .604.582.9999	Vancouver Nantron Systems604.253.1588

The Intel Inside logo and Pentium are registered trademarks of Intel Corp. Prices and configuration subject to change without notice. All prices are cash discounted
O.A.C. Based on 48 month term with fair market value buyback.

Upgrading:

It's not just for machines anymore

Letter from the editor

A

while back, while I was taking a *Quark XPress* desktop-publishing course at a computer resource centre, I started talking to the other people gathered for skills upgrading.

One man in his sixties had spent many years doing what he knew best at a can-labelling plant. Now, all of a sudden, he had to learn how to produce the labels himself—digitally. Although he was only a few short years away from retirement, it was either learn now, or leave immediately. Another woman was there to master *Excel*. Although she already excelled in pencil and paper accounting, this was no longer acceptable; she had to learn how to use a mouse.

A young woman in her twenties had arrived to learn about Web authoring. She was up on the WWW craze and wanted in.

Another gentleman just wanted to learn about the Internet. Everywhere he turned, people were telling him to research the Net...and he had no idea what to do!

It seems that no matter what age you are, or what you do, technology is being upgraded—and you're being asked to upgrade along with it. Think you know everything you need to know? Perhaps, but to survive into tomorrow you'll need to know more—and you'll probably need to know things you never even dreamed of knowing today.



Danger, Will Robinson!

Everywhere you turn, book jackets point out this same phenomenon: *The End of Work*; *Surviving the Information Age*; *The Learning Paradox*; *Survivability*; *Get Wired, You're Hired*. They're all warning us about the radical shifts going on in the employment field, and the necessary alterations in perception and adaptation we must make.

In this issue of *The Computer Player!* we take a look at various angles of this late twentieth-century phenomenon. How do you prepare a resume that will work on the Internet? How do you search for work on the Web? What are the hot jobs in the technology field? How do you adapt to change? Can you have a career and not a job?

Although various factors contribute to Canada's bleak job environment (unemployment, longer hours for less money, zero job security), technology "is one of the most central variables. It's transforming workplaces, it's changing the nature of work," says a recent report by Canadian Policy Research Networks. So how do you use technological change to your advantage?

Plug In—or else!

"I have a simple premise," writes Jim Carroll, author of the soon-to-be released *Surviving the Information Age*. "A good survival skill for any baby boomer, intent on keeping his job or in establishing opportunities in the wild new 'wired economy,' is to be a master of the wired world..."

"If you remain 'unplugged,' you'll be operating at a tremendous disadvantage compared to those who are 'plugged in.' In fact, those who are 'wired' will have the good jobs, and those who are not will suffer as the future marches on."

Jeremy Rifkin, author of the immensely popular *The End of Work*, agreed that "we are on the cusp of a great transition in the nature of commerce and work. We are moving out of the industrial age and into the information age. Sophisticated computers, telecommunications technology, robots, other intelligent machines are replacing traditional job categories."

But is this a bad thing? "I chose to see this as one of the great opportunities for the human race," Rifkin stated. Everyone from architects to lawyers is using technology to speed performance. That's opportunity.

And finally Jim Harris, author of *The Learning Paradox*, believes flexibility is the way to security. "What will create security? Only three things: our ability to learn; our ability to change; and our ability to accept uncertainty," writes Harris. "And what do we fear most as adults? Learning, changing, and accepting uncertainty. I call it the learning paradox—our security is based on what we fear most."

Silver lining in cyberspace?

Although each of us can identify one person who has recently lost a job, and another who is struggling to adapt to new technologies, there are probably also others we can point to whose lives have improved because of technological change, be it through telecommuting, the Web, or a simple electronic spreadsheet.

Although keeping current takes a lot of time and effort, it certainly pays off: just ask the experts! How many of us would be willing to give up our computers and revert to pens and pencils? No one. This new world is too exciting—and the possibilities are endless.

Enjoy the issue!

Māra Gulens, Editor in Chief
editor@tcpon.com ♦

Your letters please

Letters on issues raised in the paper or general computer topics are welcome. Please be brief. We regret that we are unable to look up stories from past issues, suggest products, or solve all your computer problems. Only those with names and e-mail or snail-mail addresses will be published. Letters may be edited for space or content.



The Editor,
Computer Player!,
Canada Computers!
BC Edition
425 Corral Street
Suite 503,
Vancouver, BC
V6B 6E3
ccletters@tcpon.com

Time check

I read the March 1997 article by Chris Guly ("PC as appliance") and note Jeff Dossett's statement that "We absolutely foresee the time when the personal computer in its various forms...will achieve 90 per cent penetration rate." I don't doubt it, but I wonder if anybody has some time projections on achieving that 90 per cent?

Franklin Wayne Polcy, via the Internet

Living with bugs

I am writing in response to Alan Zisman's article entitled "In software as in flour, how many bugs are too many?" (March 1997)

If software were cars, would I walk to school?

Sure, there's too many bugs in the software that we use, but there are no alternatives. We don't want to say "I think I'll just walk," when it comes to software because walking is slow. I'd rather use a word processor to do a school assignment and work around the bugs than twice as much time "doing it by hand."

We are a long way away from the time when most software is bug-free, but

software has only been around for the past two decades. I think that if you look back, most, if not all, of the early cars had some bugs in them, too. The difference is that those cars didn't have programmers.

As for me, I take the car to school.
Albert Ulanday, via the Internet

.....

Your articles on bugs really hit a sore point with me. I bought Corel's *Print House* around Christmas and paid only \$19.95. The program works fine on screen, but the printouts have so many bugs that it turned the creating of new stuff into a very unpleasant experience.

There are two versions of *Print House*, one at \$19.95 and one at \$49.95. Looking at the boxes, I could not see any difference (5,000 free clip-art images and so on). The difference, from what I can see now, is that one has bugs and the other does not.

I got on their Usenet group and saw that quite a few had the same problem, and then they took it off their bulletin board: the next morning, all those messages indicating that maybe everything

was not rosy with their stuff were gone. Bravo for keeping the bugs under the carpet.

Good article, Alan!

Gilles A. Marchessault, via the Internet

Speed Issues

Paul Angyal, in his article on chips in the March 1997 issue, seems to think that Intel CPUs are unquestionably the fastest currently available for the desktop: "Intel undoubtedly has the fastest turboprop."

Undoubtedly? With Silicon Graphic's O2 model coming in at high-end "turboprop" prices, and with the PowerPC 604e chip running at 225 MHz in Macs and Mac clones, there's already been plenty of room for doubt. Mr. Angyal and his readers might usefully direct their attention to the English version of a recent, technically thorough (and rather boring) article in the German computer journal "C't", in which Intel's efforts are put into perspective in a comparative test of Pentium, Pentium Pro, and PowerPC chips in various platforms.

The picture, even before the recent arrival of PowerPC chips running in the

continued on page 7

VANCOUVER OFFICE

425 Carrall St., Suite 503, Vancouver, BC V6B 6E3
Phone (604) 608-2688 Fax (604) 608-2686

PUBLISHER Douglas Alder

ASSOCIATE EDITOR Alan Zisman

VANCOUVER PRODUCTION

Jason Edmunds, Lisa Wilder, Sari Prelutsky

PROJECT MANAGER Judy Prange

VANCOUVER ADVERTISING SALES

Jamie Leighton, jamie@tcp.ca

Randy Chaster, randy@tcp.ca

CONTROLLER Chris McPhie

DISTRIBUTION Harpal Singh Khalsa

ACCOUNTING Farida Aini

TORONTO OFFICE

99 Atlantic Ave., Suite 408, Toronto, ON M6K 3J8
Phone (416) 588-6818 Fax (416) 588-4110

EDITOR-IN-CHIEF Māra Gulens, editor@tcp.on.com

MANAGING EDITOR Lara Thais King

ART DIRECTOR Jennifer Hanlon Scott

ASSISTANT EDITOR Renée Wilson

ART ASSISTANT Susan Magill

COPY EDITOR William Wood

EDITORIAL ASSISTANT Lauren Blankstein

TORONTO ADVERTISING SALES

Frank Houston, frank@tcp.on.com

Marsha Miller, marsha@tcp.on.com

ADVERTISING ASSISTANT Catherine McEachern

FOUNDERS Kent Liqin Chen, Li Ding

ABOUT THE COVER

This month's cover photograph was shot by John Narvali and features Sandra Hardy using a Panasonic CF-25 laptop and a Motorola Ultra Express numeric pager. It was designed & retouched in Photoshop 3.0. by Jennifer Hanlon Scott. Composition & type were created in Adobe Illustrator 6.0.

Computer Player!

(Canada Computes! BC edition) is published monthly by Canada Computer Paper Inc.

Toronto Computes!

99 Atlantic Avenue, Suite 408
Toronto, ON M6K 3J8
Tel: (416) 588-6818 Fax: (416) 588-4110

Ottawa Computes!

260 St. Patrick Street, Suite 303
Ottawa, Ontario K1N 5K5
Tel: (613) 789-6431 Fax: (613) 789-6433

Québec Micro!

360 Notre Dame Ouest, Suite 103
Montréal, QC H2Y 1T9
Tel: (514) 843-4770 Fax: (514) 843-3484

Copyright 1997

Canada Computer Paper Inc.

unless otherwise specified.

Subscriptions: \$29.95 (includes GST) a year

or \$49.90 (includes GST) 2 years.

American subscriptions: US\$75

Overseas subscriptions: Can\$135

Mail cheques and money orders

(payable to Canada Computer Paper Inc.) to:

Computer Player!

425 Carrall Street, Suite 503, Vancouver, BC V6B 6E3

Canadian Publication Mail Sales

Product Agreement #170 437

Printed in Canada

ISSN 1188-9462

Computer Player! is distributed free through

hundreds of stores & street boxes around the

Greater Vancouver area.

The publisher reserves the right to refuse sexist, racist, or otherwise offensive advertising. The publisher also reserves the right to be the final judge of what is appropriate.

ANNOUNCEMENTS: pressreleases@tcp.on.com

You Asked Us: yau@tcp.on.com

MAY 1997 ISSUE: Multimedia

AD DEADLINE: Tuesday, April 15

DISTRIBUTION: Friday, May 2

The full text of CPI is available to read online at:

<http://www.computer-player.com/>

Letters...

continued from page 6

300-533 MHz "jet" speed range, wasn't nearly as clear as Mr. Angyal seems to think: "C't" concludes that "Even if there isn't a clear winner, you can certainly make out a loser..." I was a little surprised to find out who this loser turned out to be! Hint: it might have to do with the slowness of a widely-marketed

operating system.

Now, there's where the word "undoubtedly" might realistically be employed.

B. Bennett, via the Internet

Looks as if I touched a raw nerve with the turboprop vs. jet analogy, and some readers think that a turboprop is faster than a jet. It isn't, and it will never do Mach 2 (twice the speed of the sound).

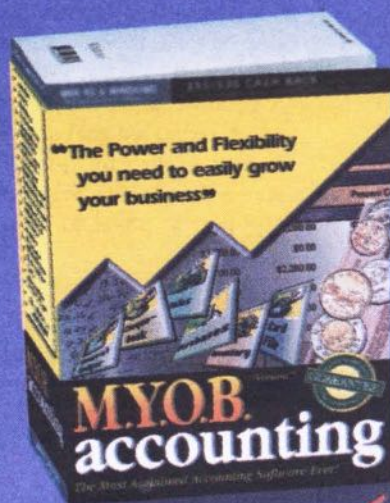
Paul Angyal ♦

Letters

O o p s !

Unfortunately, we published an incorrect number for Icycle Computer in our annual review (March) of tax-prep software. To contact Icycle, go to <http://www.hookup.net/~icycle/> or phone (613) 237-4899.

Canada's Most Powerful Accounting Software for a Growing Business Like Yours...



M.Y.O.B. accounting.



Powerful

M.Y.O.B. is a full fledged business management system. Quotes and estimates, contact management, job costing and a report customizer for M.Y.O.B.'s 111 reports, are just a few of the powerful features that set M.Y.O.B. apart.

Flexible

Some accounting packages force you to work the way they work. Not M.Y.O.B. - you can design your own invoices, purchase orders, statements and other forms. M.Y.O.B. Version 7 conforms to the way YOU do business.

Easy to Use

Most Canadian accounting packages that are powerful either aren't meant for growing businesses or are difficult to use. Features like the Setup Wizard and CD ROM Learning Centre make M.Y.O.B. easy to setup, easy to learn, and easy to use!

We GUARANTEE if your business requires Flexibility, Power, and Ease of Use, you won't need to look beyond M.Y.O.B. Buy M.Y.O.B. Version 7 now.

Best!Ware®

145 King Street West, Suite 1000, Toronto, Ontario M5H 3X6
For more information: 1-800-640-MYOB (6962) Fax: 416-360-2927

Go to one of these software resellers and ask for M.Y.O.B. today!

A Plus • Adventure Electronics • A&B Sound • Business Depot • Compucentre • CompuSmart • Computer City • Doppler Computer Superstore • Future Shop • Inmac • Mac Warehouse • Micro Boutique • NEBS • Office Depot • Office Place • London Drugs

See why the critics are consistently voting M.Y.O.B. the #1 choice!



PC Computing

Virtual village

•• By JUNE CAMPBELL ••

The splash page proudly proclaims "We went online at 11:20 AM Friday, September 6, 1996."

Virtual Castlegar is believed to be the first Web site of its kind in BC, and may have been among the first of its kind in the world. It's a virtual community mirroring the village of Castlegar (population: 7,000), which nestles in the Kootenay Mountains east of Vancouver.

The site includes, among other things, local government, a calendar of events, sports, recreation, educational institutions, industry, a mall of businesses, weather information, a map, pictures of the area, a real-time chat feature, and a messaging board. A surprisingly elegant offering by the Castlegar RCMP Detachment completes the picture.

Conceived by Richard Maddocks, executive director of the Castlegar &

District Development Board, and Loukianow Miller Internet Specialists, this growing, evolving project has measurable goals and objectives and will be evaluated accordingly.

Fair exchange

Maddocks reports that "we undertook this venture as an economic development project. Our unofficial motto was to 'take Castlegar to the world and bring the world to Castlegar.'"

"We secured private investment from corporate sponsors and hired local Web writers and worked closely with our local ISP."

There are many good Web sites out there. What makes this one unique lies in its content and its developmental process. Virtual Castlegar isn't about technology; it's about a community working together to promote itself, both locally and globally.

The \$10,000 project couldn't have happened without the support of its

major corporate sponsors (Castlegar Savings Credit Union, BC Hydro, and Celgar Pulpmill), as well as the support and donations of time or money from many others. According to Project Co-ordinator Leslie Loukianow, of Loukianow Miller Internet Specialists, "it takes a whole bunch of different Web writers, people, donations, sponsorships, etc... I get to run around and find the information, funding and sites to go in. Not to mention sometimes selling the idea to chambers, etc., so they can support it."

"I don't know how many times we've struggled making the Cities as 'human' as we can. I just want them to have a personality, for people to actually get a physical response, you know?"

Pulling together

Virtual Castlegar is a triumph of cooperation and organization—a stellar example of what a small commu-

nity can accomplish when people pull together. Marilyn Strong of The Strong Communication Group Inc. probably speaks for many when she says "I'm so proud of our little community and what it's achieved." ♦



Virtual Castlegar

<http://www.castlegar.com/>

Richard Maddocks

richardm@knet.kootenay.net

Loukianow Miller Internet Specialists

<http://www.jens.com/lm/>

GAMES LOVERS' LIBRARY

- Full line of computer systems
- Custom built systems to your specifications
- Specializing in upgrades

**133MHz
\$1380**

**150MHz
\$1430**

**166MHz
\$1600**

**200MHz
\$1800**

INTEL PENTIUM SYSTEMS

15" mid tower case
Intel Chip Set, 256K Pipeline Burst Cache
16MB EDO RAM
1.44MB floppy disk drive
1.2GB EIDE hard drive
16 Bit Sound Card
8X Internal CD-ROM Drive (EIDE)
2 External Speakers
64Bit SVGA card
14" SVGA Non-interlaced color monitor
Microsoft 2 button mouse
104 key/Windows 95 keyboard
Windows 95 CD

***1 month free internet access with every system purchased**

PC Games, CD ROMS, Computer Books, CD Movies, Rentals & Sales

Phone for our everyday low price on new PC games. We carry both Chinese & English titles.

Over 700 almost new comments/used PC games at very good prices to choose from. Plus a wide selection of hint books and strategy guides. We carry both Chinese and English game magazines.

Feature Game of the Month: Magic: The Gathering \$67⁰⁰

Some examples of our fine pre-owned games. Lots more with lower prices

Ah-64D Long Bow	\$38.00	John Madden '97	\$38.00	Warcraft 2	\$38.00
The need for speed SE	38.00	Time Lapse	43.00	Quake	45.00
Terra Nova	38.00	Duke Nukem 3D	38.00	11th Hour	45.00

Hours Mon to Fri 10am - 8pm
Sat, Sun, Holidays 11am - 7pm

140 - 9020 Capstan Way Richmond, B.C.

One block north of Cambie on Garden City, next to 7-11

Tel: (604) 270-7898

<http://www.jvb.com/gameslovers>



Win

an IBM P133 365xd Thinkpad Notebook Computer with a purchase of \$200 or more. See details in the Web at www.zeven-inc.com/compguide or call us directly.

Good Luck!

IBM THINKPAD

365X P-133/8MB/1.08GB/
11.3" DSTN/WIN95.....\$2,741

IBM THINKPAD

365XD P-120/8MB/850GB
10.4" TFT/WIN95.....\$2,565

IBM THINKPAD

365XD P-133/8MB/1.35GB/
11.3"D OM/WIN95.....\$3,973

PRINTER

LEXMARK OPTRA E
600DPI 6PPM 1MB.....\$705
LEXMARK OPTRA 4039
600DPI 10PPM 2MB....\$1570
LEXMARK OPTRA+
1200DPI 16PPM 4MB..\$1850

**MONTHLY 12X
CD-ROM DRIVER SPECIAL
UNBEATABLE PRICES
CALL US NOW!**

Trade-Ins Welcome. Leasing Available. We Specialize In Corporate Sales.



NNET COMPUTER MART

WWW.ZEVEN-INC.COM/BUSINESS/NNET.HTM

Tel: (604) 738-7577 Fax: (604) 738-2033 E-Mail: info@zeven-inc.com

Electronic snooping the subject of town-hall meeting

• • By JUNE CAMPBELL • •

Privacy Association; Colin Bennett, Political Science, University of Victoria; Lorraine

Dixon, director of the Office of Information and Privacy Commissioner;

and Richard Rosenberg, Department of Computer Science, UBC). ♦

We must have regulations to protect our privacy in the face of emerging new technologies, and those regulations must be based on a human-rights approach. This is the message given to the Standing Committee on Human Rights and the Status of Persons with Disabilities at a town hall meeting held on March 10 in Vancouver.

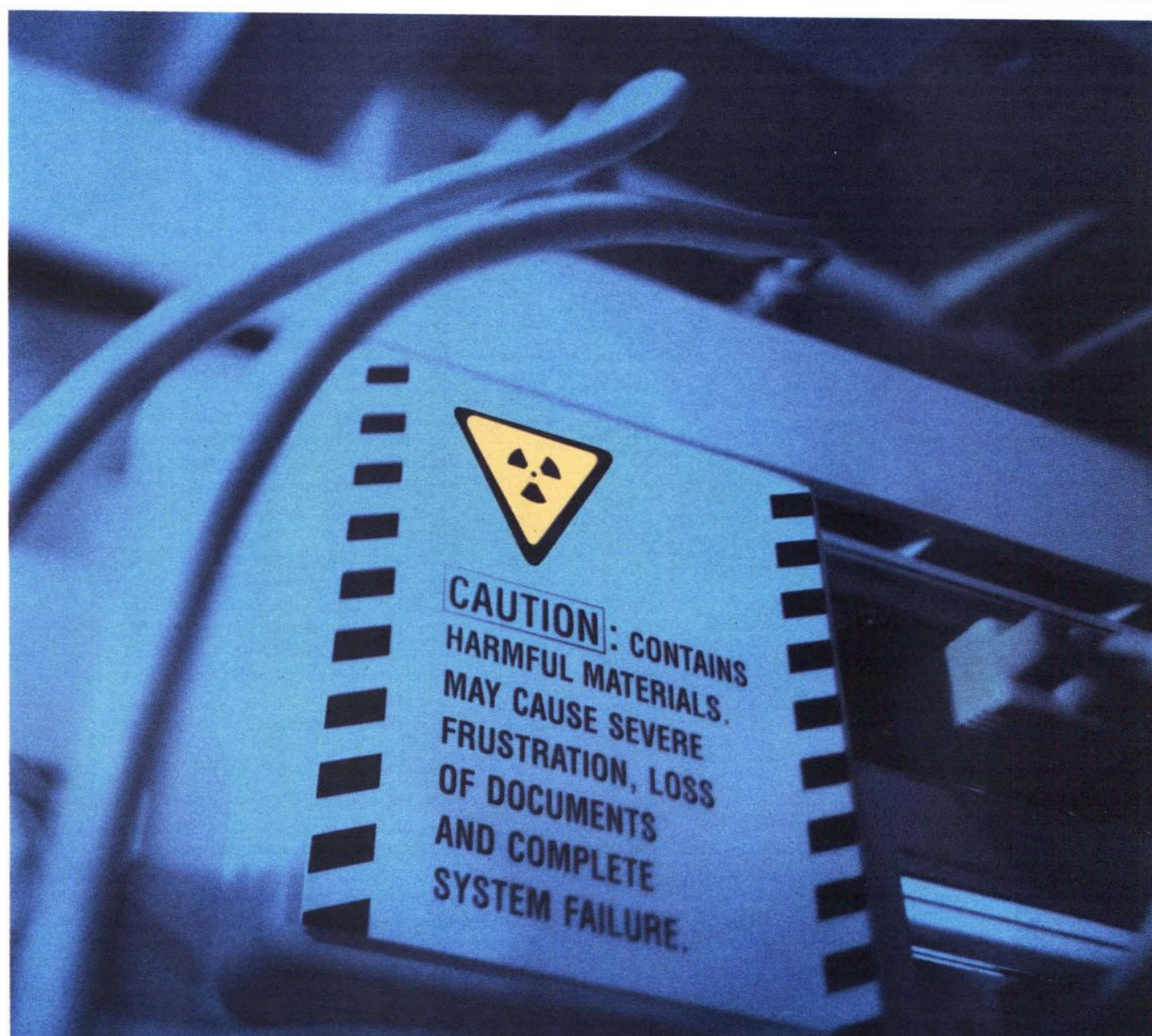
Representatives from privacy associations, education, law, health, industry, and the public sector met with Committee members to discuss the impact of new technologies on our right to privacy. Chaired by The Honourable Sheila Finestone, MP, the Parliamentary Committee is visiting selected points across Canada to invite dialogue on the following technologies:

1. Smart cards, (not to be confused with the magnetic stripe cards used for credit cards) have the potential to be adopted for personal-identification purposes. Housing a microprocessor and memory-storage space, they are essentially a personal computer with the shape, size, and appearance of a credit card. They can calculate, encrypt, and record data, and can interface with computer networks and centralised databases. Smart cards have the capability of maintaining any and all data about an individual, and of updating the centralized data bank of information every time the card is used. Theoretically, these cards can contain the most exhaustive database of information about the individual that has ever assembled.

2. Genetic testing has the potential to change the fortunes of various institutions and businesses. As the cost of genetic testing lowers, its potential for use by the private sector increases. Currently used as forensic evidence in criminal investigations, genetic information is of considerable interest to health-care providers, insurance companies, and employers. Insurance companies, for instance, could refuse coverage to individuals who are genetically predisposed to disease; employers may screen out potential employees whose genetic make-up predisposes them to health problems.

3. Video-monitoring technologies have given rise to a whole new set of privacy issues. Modern technologies now have the ability to penetrate walls, function in the dark, and operate from great distances, and can be aggregated with other sources of information. Computerized facial-recognition systems can take the videotaped image of a face and match it with a database of facial images. Supposedly a database of images, such as the registered drivers in BC, could be matched against tapings from a closed-circuit television system to identify anyone, anywhere.

The town hall discussions were lead by local experts in the field of privacy and technology (Darrel Evans, executive director of the BC Freedom of Information and



What software piracy costs the consumer. Number three in a series.

Pirated software comes in many forms. Which is why it pays to protect yourself. Learn how to identify pirated software and understand its implications, and whatever you do, don't buy it.

Pirated software is more likely to contain viruses or crash your computer. To make matters worse, if it fails – and it may – you're not entitled to receive any support from the software manufacturer.

How do you know when you've received pirated software? Always look for an end user license agreement from the software manufacturer. If this is not present, chances are the software is pirated.

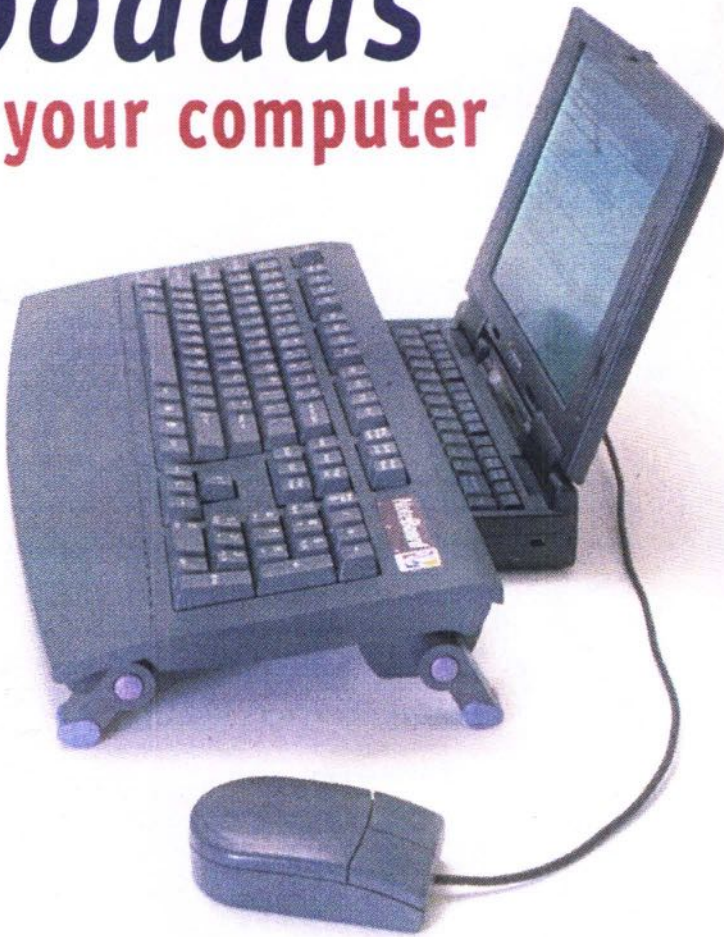
Other unauthorized software is not as easily identifiable. For instance, software sold in plastic CD cases labeled "To be sold only with hardware" should not be sold alone. No matter what anyone tells you, this type of software is highly susceptible to being counterfeited. The easiest way to protect yourself is to always deal with a reputable software retailer – one who is aware of the problem of piracy and can ensure you receive a legitimate product.

FIRST AID TREATMENT: Protect yourself. Look for the CAAST (Canadian Alliance Against Software Theft) Logo at your retailer. Educate yourself. Pick up a CAAST brochure at participating stores. And should you have questions, suspect someone may be committing software piracy or suspect you've received pirated software, contact CAAST at 1-800-263-9700.



Gadgets and doodads for your computer

By LYNN GREINER



Sensitive cat, er, mouse

Felix, from Altra, is an unusual pointing device. It's not exactly a mouse, but rather a self-contained electro-optical contraption roughly six inches "square," with a one-inch square mousing surface in the middle. The permanently attached pointing thingy (Altra calls it the handle) has little ears on the side that make it easy to grip and move around with very little hand and wrist movement. You can span the whole screen (even a large one) by moving the handle across its one-inch pad.

I did find that, after rebooting my Windows 95 system, I'd have to "teach" Felix the size of my screen by moving the pointer back and forth from side to side, and top to bottom, a couple of times. Aside from that, and some wild and wonderful driver problems (solved by downloading the latest and greatest from Altra's Web site), the device copes well with a 17-inch monitor.

Felix is a three-button beast, and the middle button can be programmed. Because the device is quite sensitive, and a tiny movement can translate into quite a jiggle (Felix has 640 dpi resolution), I quickly decided to program the middle button to double-click when pressed. This worked well, although the shaky of hand may prefer a less sensitive pointing device.

The unit uses Microsoft mouse drivers (including Windows 95), or you can install the special Altra versions.

Smart rodent

Microsoft IntelliMouse looks like a Microsoft Mouse with a little wheel in the middle, between the two buttons. The wheel, which is also a button, can do some really clever tricks under Windows 95 or Windows NT, within applications that know about it (anywhere else, it's just a two-button mouse). That list is rather short, thus far, but in *Office 97* programs, for example, if you turn the wheel the display scrolls as though you'd clicked in the scroll bar.

The IntelliPoint software lets you program the wheel button to double-click, start Help, switch to the Shell, or open the Start menu, and you can set the actions performed when you rotate the wheel (scroll a whole screen forward with a one notch movement, for example). There's an odometer that tracks how far you've moused, and an option that snaps the mouse cursor to the default button in any dialogue. Another option lets you activate a window by simply moving the cursor into it. All of these options, and more, are part of the newest version of IntelliPoint software; only the wheel settings are unique to IntelliMouse.

Aside from these goodies, IntelliMouse is just a normal high-end Microsoft Mouse. It will come into its own once more software supports the wheel.

Going, going...

I'm being bad, mentioning the MousePen from Fellowes, because my contact in the Canadian office (an enthusiastic user of the product) tells me the company

plans to discontinue it. But it's such a good pointing device that I can't resist—maybe if enough consumers yell, they'll change their minds. The corded version is considerably cheaper, and is very easy on the hands and wrists, since you hold it like a pen. The pea-sized ball is virtually unstoppable.

Now let's move from pointing devices to typing devices.

Keyboard evolution

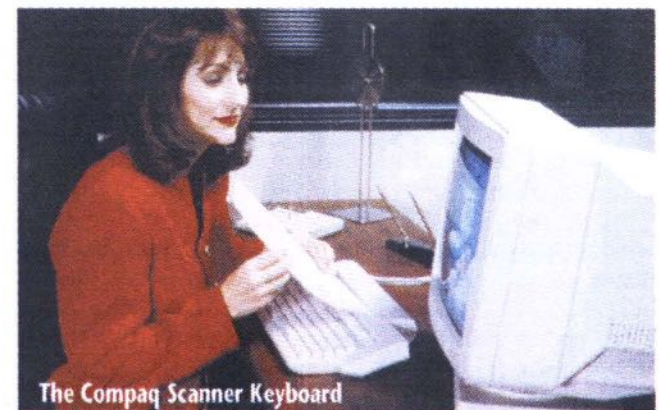
The NoteBoard, from Darwin Keyboards, is designed for users of notebook computers who prefer to type on a full-sized keyboard. Unlike most external keyboards, though, this one has four six-position adjustable feet that lift



The Noteboard

it a good couple of inches off the desk, so it can straddle the notebook computer instead of having to be placed in front of it. The feet lock into place, and are sturdy enough to keep the keyboard perfectly stable, even under the heaviest hands. Their rubberized bottoms prevent slipping.

The keyboard itself is an elegant charcoal grey, and may be purchased with or without a matching serial mouse. It has a wide palmrest, and a full complement



The Compaq Scanner Keyboard

of keys, including 12 function keys, Windows 95 keys, and separate cursor control keys. The touch is relatively light, and you can hear when a key makes contact, despite the absence of keyclicks.

The NoteBoard comes with LaunchPad software, which lets you program the function keys to launch programs (my F12 now starts Solitaire), or even provide one-touch access to your favourite Web site from *Netscape*, *Internet Explorer*, or *America Online*. LaunchPad actually works with most keyboards, and you can download an evaluation copy from Darwin's Web site.

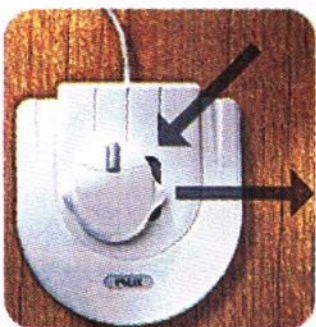
Back to nature

The Microsoft Natural Keyboard is Microsoft's ergonomic model, a curvaceous device that is raised in the middle, effectively splitting the keyboard in two and placing the keys in a slight V shape. The idea is that each hand will rest on its home keys, at a more natural angle than on a normal, flat keyboard. The numeric keypad and cursor control keys are on the flat end of the unit; only the "typing" keys are on a slant.

The Natural Keyboard has a single full-width foot that raises the front of the unit a good inch and a half. A



The Case Logic Day Pack



The Felix sensitive mouse

The criteria was fairly simple: the item had to be a computer accessory or add-on that somehow makes a computer nicer to use. If a product type isn't here, chances are you'll see an in-depth feature in the not-too-distant future.

We picked up some neat pointing devices, some unusual keyboards, and a new twist on computer cases (you'll see). And we'll throw in a couple of cheap tricks that, when you see them, you'll wonder why no one has thought of them before. So, without further ado...

continued on page 12

OPEN YOUR DOORS TO THE WORLD

Introducing **4** new internet packages for your business.

CORPORATE PACKAGE \$29⁹⁵/mo

- no setup fee
- includes flat-rate internet access
- no prime-time restrictions
- free software kit and setup



- website up to 1Mb with no traffic charges
- optional onsite setup/tutorial for \$25

VIRTUAL SERVER PACKAGE \$15/mo

- setup fee: \$50⁺
- includes domain registration, custom email and web address

Plus applicable
InterNIC fees



WEB PUBLISHER PACKAGE \$25/mo

- no setup fee
- 5 Mb storage
- direct FTP access
- no traffic charges
- NETSCAPE Commerce Server
- MICROSOFT FrontPage Extensions



ISDN PACKAGE \$380/mo

- no setup fee
- dedicated high-speed 128 Kbps digital ISDN connection
- no traffic charges



Information

Knowledge

Internet



CORPORATE SERVICES



Internet Gateway Corporation
Suite 503 ~ 889 West Pender Street
Vancouver, British Columbia
Canada V6C 3B2

Phone : (604) 654-6088
Fax : (604) 669-8489
Toll Free : 1-800-453-1286

Internet : <http://www.intergate.bc.ca>
Email : staff@intergate.bc.ca

Gadgets and doodads for your... continued from page 10

palmrest allows you to lay your hands more or less flat on it while you're typing.

Most users who try this thing curse it for the first little while, especially if they're not touch-typists. If you tend

to cross over and hit, say, the "T" key with your right hand instead of the "correct" left hand, you'll find it extremely awkward. And typing at an angle takes getting used to. After a while, however, you notice your wrists don't feel as abused after a long keying session, and a normal keyboard feels strange.

A keyboard that can see

Compaq's Scanner Keyboard has a TWAIN-compliant Visioneer PaperPort monochrome (up to 256 grey-scale) scanner built right into it. You just drop your correspondence or whatever into a slot at the back of the keyboard, and it turns itself on and automatically slurps the paper

through. It's great for clippings or business cards, as well.

The keyboard comes with PaperPort software that lets you manage and manipulate the graphic images you scan, as well as a light version of Xerox TextBridge OCR (optical character recognition) that can translate most plain letters into word-processing formats, but has difficulty with things like multiple columns. For that complexity, the program suggests you upgrade to the full version of TextBridge.

A special case

You may wonder what could be special about a computer case. Well, Case Logic has actually developed a new twist with its Day Pack, a backpack designed for notebook computers. It has a padded pouch at the back, with a Velcro strap to secure it, that's just the right size for all but the hugest notebook computers. Even with the machine in place, there's lots of space in the pack for other bits and pieces.

A pouch on the front can hold flat items, like small manuals, and it unfurls and flips up to reveal more pockets for pens, diskettes, and other small items. The promotional material says one pocket is for cellular phones, but it'll only hold the tiniest models.

I wandered around wearing a computer-laden Day Pack, and although the computer bumped my back a bit, it was not uncomfortable. This pack would work well for students, or for business people who don't mind putting dignity aside to give their aching shoulders a rest.

A few looney items

Now for some small stuff. If you're a Looney Toons fan, Fellowes has a full line of wrist rests and mouse pads decorated with characters like the Tasmanian Devil, Bugs Bunny, and Marvin the Martian, for between \$10 and \$20. If your CD-ROM collection is getting out of hand, you might want to swap the bulky jewel cases for plastic sleeves, and put them in Case Logic's special 50 disk capacity CD-ROM shuttle (PDR-50, \$29.99).

Finally, with today's more powerful machines, reasonably good power is a must, so a decent surge-suppressing power bar is a great investment if you can't afford a UPS (uninterruptible power supply). One good choice is the Tripp Lite ISOBar surge suppressor. They cost about \$65 and up, depending on the number of outlets (\$80, with phone line protection as well), and will eat power surges before they hit your computer. They come with \$10,000 or \$25,000 equipment insurance (depending on the model); if anything gets fried by a power surge while plugged in to an ISOBar, you'll be compensated. ♦

Earn Top Dollar as a Multimedia Programmer!

Today, computer programming is not only the fastest-growing computer career field, it's also one of the most respected, highest-paid professions in America. And no wonder: Recent advances in multimedia applications have put programmers at the forefront of yet another new revolution — one that's changing forever the way the world lives, learns, and works with computers.

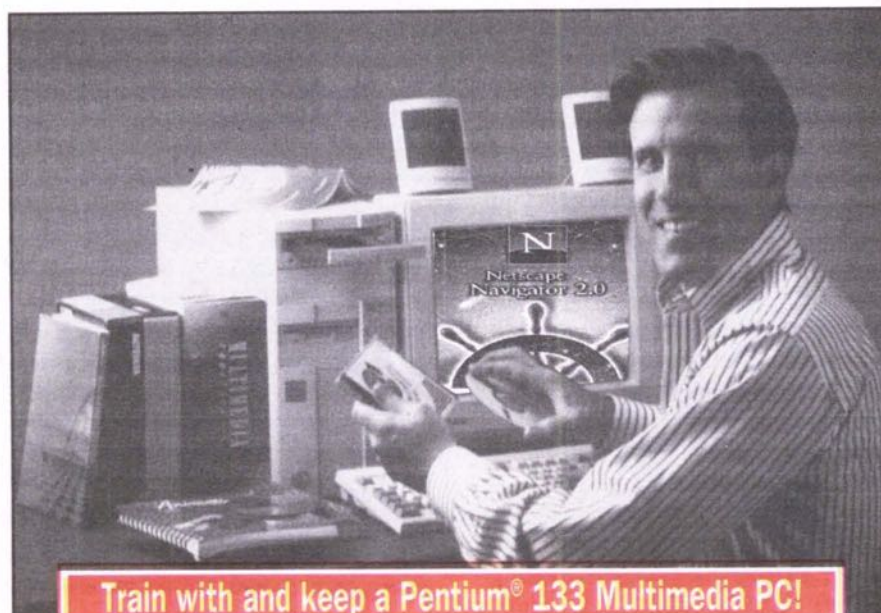
Opportunities to create interactive multimedia programs are everywhere: in retail, to increase sales with immediate, point-of-purchase kiosks; in education, to increase students' level of understanding and retention in all subject areas; and in business and industry, for more persuasive sales presentations and for cost-efficient and effective skills training.

Now, with NRI's one-of-a-kind training in Multimedia Programming, you can take advantage of this growing specialty field and chart your future in an exciting, money-making career.

Only NRI gives you hands-on experience with a Pentium® 133 multimedia computer and ToolBook software!

NRI's unique modular training gets you started fast with step-by-step lessons and hands-on projects that bring theory to life and reinforce every important concept. Your training is complete computer programming training, starting with the basics and moving on to the most advanced languages used in today's multimedia authoring programs.

The centerpiece of your course is a Pentium® 133 multimedia computer, complete with Windows 95 and Multimedia ToolBook authoring software. You may use this impressive system for your hands-on projects or upgrade to tomorrow's technology through NRI's brand-new PC Options Plan.



Train with and keep a Pentium® 133 Multimedia PC!

- Pentium® processor with fast 133 MHz clock
- 8 meg RAM
- 1 gigabyte hard drive
- Super VGA color monitor with 1 meg video memory
- 8X CD-ROM drive
- 33,600 baud fax/modem with 10 free hours of America Online
- 16-bit sound card
- Windows 95
- Netscape Navigator™ Web browser
- Multimedia ToolBook software
- Student-priced upgrades!

Your instructor is a mouse click away

Using NRI's Online Connection — an exclusive service for students and alumni — you can chat with your instructor, attend "virtual seminars," download supplemental materials, and more. There's no better way to stay informed and motivated!

Send today for your FREE catalog!

If the coupon is missing, visit our Internet site (<http://www.mhcec.com>) or write to NRI Schools, 300 Water Street, Whitby, Ontario L1N 9B6. For fastest service, call...

**1-800-321-4634,
Ext. 2498**

SEND TODAY FOR FREE NRI CATALOG!

NRI Schools

300 Water Street, Whitby, Ontario L1N 9B6

Check one FREE catalog only: High school diploma or GED recommended for all courses, required for degree programs:

- ☐ Multimedia Programming
- ☐ Computer Programming
- ☐ Webmaster

- ☐ Microcomputer Servicing
- ☐ Visual Programming in C++
- ☐ PC Applications Specialist

- ☐ Mastering Microsoft Office
- ☐ Networking with Windows NT
- ☐ Desktop Publishing with PageMaker

OR GET YOUR DEGREE!

- ☐ AAS in Accounting
- ☐ AAS Degree in Business Management

Name _____ Age _____
Address _____
City _____ State _____ Zip _____

A Division of The McGraw-Hill Companies

Accredited Member, Distance Education and Training Council

1933-0497



ELITECH SYSTEM

安泰電腦

WE OFFER BEST SERVICE,
BEST PRICE, BEST QUALITY!

コンピューター

PENTIUM SYSTEMS

Intel Pentium CPU, 16MB EDO RAM
PCI/ISA Mother Board, Built-in EIDE Ctrl
256k Pipeline Cache, PCI 64bit Video Card
1.3GB Hard Drive, 1.44MB Floppy Drive
15" Mid-tower Case, 230W PS
104 Win'95 Keyboard, 2 or 3 Button Mouse
One month free internet

P-133

\$815

or lease \$28/mon

P-120 \$776
P-166 \$1020
P-200 \$1283

PENTIUM-Pro SYSTEMS

Intel Pentium-Pro CPU, 256k Cache
32MB EDO RAM, 2.1GB Hard Drive
PCI/ISA ATX Mother Board,
Built-in EIDE Ctrl, S3 3D Virge Video Card
1.44MB Floppy Drive
15" ATX Case, 230W PS
104 Win'95 Keyboard, Mouse
One month free internet

Pro-150

\$1299

or lease \$43/mon

Pro-180 \$1729
Pro-200 \$1939

MULTIMEDIA SYSTEMS

Intel Pentium CPU, 16MB EDO RAM
PCI/ISA Mother Board, 256k Pipeline
Burst Cache, Built-in EIDE Ctrl
PCI 64bit Video Card
1.7GB Hard Drive, 1.44MB Floppy Drive
15" Mid-tower Case, 230W PS
104 Win'95 Keyboard, Mouse
14" SVGA Monitor
8x CD ROM, 33.6 fax/modem
16Bit Sound Card
60W Speakers
One month free internet

P-133

\$1385

or lease \$46/mon

P-120 \$1346
P-166 \$1590
P-200 \$1853

MMX SYSTEMS

Intel Pentium MMX CPU
16MB EDO RAM
PCI/ISA Mother Board, 256k Pipeline
Burst Cache, Built-in EIDE Ctrl
S3 3D Virge Video Card
1.7GB Hard Drive, 1.44M Floppy Drive
15" Mid-tower Case, 230W PS
104 Win'95 Keyboard, Mouse
15" SVGA Monitor
12x CD ROM, 33.6 fax/modem
16Bit Sound Card
60W Speakers
One month free internet

MMX-166

\$1849

or lease \$61/mon

MMX-200
\$2104

Motherboard

Pentium Motherboard MMX ----- \$129
Gigabyte VX 512k MMX ----- \$162
Gigabyte HX 512k MMX ----- \$175
Asus T2P4 HX 512k MMX ----- \$195
Asus T2P4 HX 256 MMX ATX ----- \$205
Intel Chipset Pentium ProATX ----- \$258

CPU

Pentium 100/120 ----- \$138/\$143
Pentium 133/150 ----- \$182/\$227
Pentium 166/200 ----- \$387/\$650
Pentium PRO150/180 ----- \$290/\$720
Pentium PRO200 ----- \$930
Pentium 166/200 MMX ----- \$515/\$770
Cyrix 6x86 150+/166+/200+ - \$138/\$190/\$299

Hard Drive

1.3G/1.7G EIDE ----- \$238/\$250
2.1G/2.5G EIDE ----- \$280/\$325
WD 1.7G/ 2.1G EIDE ----- \$275/\$315
WD 2.5G/3.1G EIDE ----- \$360/\$390
Wuantum 1.2G/ 1.7/2.1G EIDE -- \$253/282/308
Wuantum 2.5G/3.2G EIDE ----- \$330/\$375

Memory

30p 1MB/4MB ----- \$/5
72p 4MB/8MB EDO ----- \$/5
72p 16MB/32MB EDO ----- \$/5
SDRAM 16MB/32MB ----- \$/5
LONG DIMM 16MB/32MB ----- \$/5
256K/512 Pipeline Cache ----- \$20/\$40
SOJ Video RAM 1M ----- \$18

Others

Joypad / Joystick ----- \$18/\$25
Microphone ----- \$12
Earphone w/Microphone ----- \$20
Casio Digital Camera ----- \$529

CD ROM

8x CDRom / Panasonic ----- \$129/\$135
12x CDRom / Panasonic ----- \$135/\$142

Monthly Special Fujitsu 1.7G HD \$250!

Monitor

Acula 14"/15" /17" ----- \$229/325/615
Proview 14"/15" /17" ----- \$249/339/629
Daytek 14"/15"/17" ----- \$259/339/639
SCEPTRE 14"/15"/17" ----- \$269/359/649
MAG DX 15" .28 / .25 ----- \$465/\$509
MAG DX 17" .28 / .26 / .25 -- \$755/\$835/\$950
NEC 15" C500/XV+ ----- \$540/\$635
Viewsonic 15" 15GS ----- \$509
Viewsonic 17" 17GS/17PS ----- \$839/\$959
Optquest 17" 0.26 V775 /V773 ----- \$859/\$749
Sony 15" SX/SFII ----- \$529/\$619
Sony 17" SX/SF ----- \$919/\$1099

Printer

Canon BJC240/4100 ----- \$229/\$299
Canon LPB-460 Laser ----- \$365
HP Deskjet 690C/820C ----- \$398/\$510
HP Deskjet 870C ----- \$645
HP 5L/6P Laser 600dpi ----- \$529/\$950
HP 4P/4C Color Scanner ----- \$649/\$1125
Microtek E3 Color Scanner ----- \$485
Acer Scan 300F Color Scanner ----- \$355

JAZ / Zip / CD Writer

JAZ 1G SCSI int/ext ----- \$515/\$625
ZIP 100M int/ext ----- \$249
Yamaha 2x/4xCDWriter ext ----- \$965
Yamaha 4x/4xCDWriter int/ext ----- \$999/\$1195
Panasonic 2x/4x CDRec. Kit w/sf/ctrl ----- \$639
Creative CD-R 2x/4x int. w/SCSI ----- \$625
Conner 800M/3.2G int. ----- \$185/\$280
Ditto 800M/2G/3.2G int ----- \$155/\$205/\$320
Ditto 800M/2G/3.2G Parallel- \$205/\$265/\$375

Eithernet Adapter

16bit ISA 10Base 2/T ----- \$39
32bit PCI 10Base 2/T ----- \$57
8 /16Port HUB ----- \$125/\$255
PCMCIA Eithernet Adapter/Comb ----- \$155

Modem

33.6 Fax/Data/Voice int- ----- \$103
Supra 33.6 w/Voice int ----- \$140
USR 33.6 Fax/Data/Voice Modem int ----- \$159
USR 33.6 Fax/Data/Voice Modem ext ----- \$283
GVC PCMCIA 33.6 Modem ----- \$259

Sound Card / Speaker

Stereo Sound Card ----- \$43
Sound Blaster 16 PnP/ 32 PnP ----- \$76/ \$129
Sound Blaster 64 AWE retail ----- \$255
Speaker 7W/60W/120W ----- \$15/\$24/\$42

Video Card

Cirus Logic PCI, 1M/2M w/sfMPEG --- \$49/\$69
S3 Trio 64bit PCI, 1M/2M ----- \$49/\$69
S3 3D Virge 2M/4M w/Games ----- \$79/\$119
ATI Mach 64D, 1M/2M w/MPEG ----- \$70/\$90
ATI 3D + 2M/4M w/MPEG ----- \$153/\$183
ATI 3D + 2M/4M w/MPEG, PC2TV --- \$173/203
ATI 3D Pro Turbo 4M/8M, PC2TV - \$260/\$360
Matrox Millenim 2M/4M WRAM ----- \$240/\$340
Matrox Mystique 3D 2M/4M ----- \$165/\$210
ATI TV Tuner ----- \$159
Matrox TV Tuner Millenim/Mystique- \$230/\$150

Software

w/system only:

Windows'95 Full Ver. ----- \$120
MS-Office Pro. 7.0 ----- \$269
Corel Word Perfect Suite 7.0 ----- \$85
MS NT Workstation 4.0 ----- \$289
MS VB Pro 3.0/4.0 ----- \$105/\$335

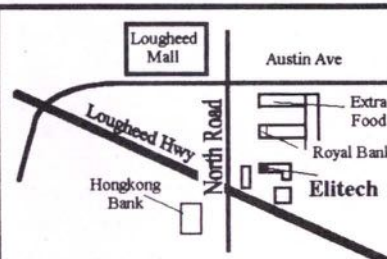
Keyboard Mouse

Win'95 104 Keyboard ----- \$20
Fujitsu 8725/4725 ----- \$29/59
Logitech Mouse 2B/3B ----- \$20/35
Microsoft Mouse ----- \$35

Case

13" /15" w/230W PS ----- \$48/\$58
19" /24" w/230W PS ----- \$68/\$104
Desktop Case ----- \$59

國語 粵語 日本語でどうぞ



Limited quantity. Prices are cash discounted and subject to change without notice. Call for the current prices.

201-403 North Rd, Coquitlam, B.C. (Lougheed Hwy & North Rd)

TEL(604)931-5809 FAX:(604)931-5891 Mon.-Fri. 11:00-6:30 Sat. 11:00-5:00

careers

Compiled by LARA THAIS KING

Some leaders in the technology field view the future of employment with a sense of gloom—but not everyone sees the situation as hopeless. Janis Foord Kirk, author of *Survivability: Career Strategies for the New World of Work*, believes that although we're in a major transition and the future looks murky, new technology has always been followed by an increase in the number of jobs.

One of the fears people face is losing their jobs to machines. Certainly, many labour-intensive or by-rate jobs are—and may continue to be—on the endangered list. Kirk insists, however, that “these machines still need operators, designers, and managers.”

Still, the times, as they say, are a-changin', and to stay competitive, we must change as well. People are moving in and out of jobs more often than they used to and employability is now based on whether a company feels they need you and thinks that you can keep up. Again and again, the focus has been on learning, especially the willingness to learn.

This month, we investigate the hot technology jobs, new ways to find work, and new job opportunities as we approach the year 2000. ♦

Resumes & the Internet

A pairing with potential

• • By ALAN THWAITS • •

We're three years away from the millennium. Scientists are cloning large mammals, everyone has an e-mail address, and pay-as-you-go space flights are being booked. If you're looking for a job, though, the bottom line remains the same—you have to get your resume out to the people who count.

It's true that building a solid resume is still the first step in any serious search for employment, but the whys and hows of doing that have been transformed by the Internet. As for distributing your resume, well, you owe it to yourself and your future to explore the exciting options that go beyond simple paper and snail mail.

i n f o

b o x

WWW
Shawn's Internet Resume Centre
<http://lnpursult.com/sirc/>
Resume Databases on the Web
<http://www.amsquare.com/america/registry.html>
Usenet newsgroups
can.jobs

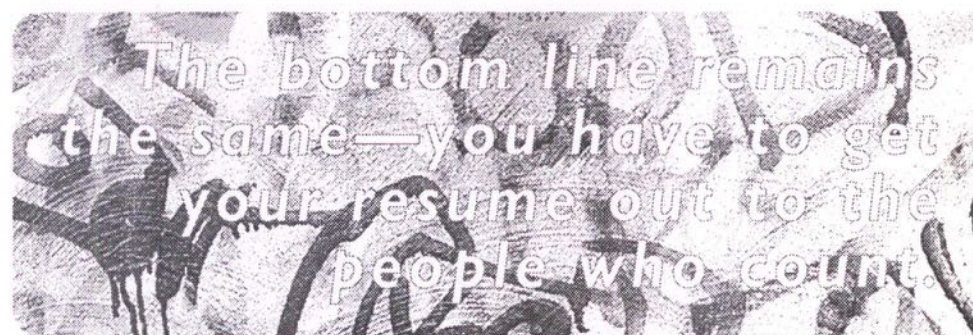
As with every other online-business-related venture, your Net efforts must be tied to your existing business model. In the case of resumes, that means thinking carefully about whether your Net efforts are going to supplement your print-based resume, or whether the online version alone will do the needful. Chances are, unless you're looking for employment in a field that's heavily Net- or computer-oriented, you should consider a twofold (print and online) approach. The

presentation and delivery of the two versions will differ, but the content of your resume will be much the same for both.

Be resourceful

There are many good online resources that will help you build an effective resume. For an example, check out Shawn's Internet Resume Centre. Even if you already have a

ing basis. If you choose this option, a great resource is the “List of Resume Databases on the Web” site. It's an excellent links-type site that displays a large number of resume database sites where you can post your resume—very often for little or no charge. Most sites are searchable by job category and geographical area, so you can maximize your efforts by using “intelligent search” techniques.



resume completed, it'll do no harm to do some research about what resume styles and strategies are in vogue right now.

Once you've decided on the content of your resume, you may have choices available in your online version that simply aren't there in print. Your print resume will use high-quality paper and an impressive typeface, but the electronic version might include images, sound files, even video clips. It all depends on what delivery method you choose, as does the preparatory work you'll need to do before distribution.

Are you going to deliver your electronic resume via e-mail? Then you'll need to collect e-mail addresses of the presidents, HR directors, and administrators of the relevant companies.

Are you planning to post to a Web-based resume databank? You'll need to decide whether you're going to post to those that allow free postings, or go the extra mile by posting to those that operate on a fee-for-fil-

Are you listed?

Want to list your resume on Usenet newsgroups and mailing lists (AKA listservs)? There are lots of these, so you'll have to do some selecting, but users should be aware of a couple of caveats. First, most of those postings are for jobs in various high-tech industries—teachers, cooks, and writers aren't well represented. Second, your resume will be posted in the midst of marketing schemes and get-rich-quick scams as well as legitimate postings.

Once you've written the perfect resume and posted it all over cyberspace, you're back to the old business model. Responses will have to be followed up, phone calls made to prospective employers, and—if you're lucky—you'll get to go for a face-to-face interview, where everything will be decided. Because, as Woody Allen once said, “90 per cent of life is just being there”—in job searches as in everything else. ♦

VISIT OUR HUGE NEW STORE!

Multilink

Computers & Communications Inc.

6X86 Systems

Cyrix 6x86 P120+/150+/166+ CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K PB Cache
8MB RAM (exp. 128MB)
1.2 GB EIDE Hard Drive
1.44MB Floppy Drive
PCI Video Card w/1M Memory (exp. to 2M)
14" NI, LR, SVGA, 1024x768 .28 Monitor
Mini-tower Case w/200W PS
104 Win'95 Enhanced Keyboard
Logitek 3B Mouseman

\$969/\$989/\$1059

Pentium Systems

Intel Pentium 75/ 100/120 MHz CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K Pipe-line Burst Cache
8MB RAM (exp. 128MB)
1.2GB EIDE Hard Drive
1.44MB Floppy Drive
PCI Video Card w/1M Memory (exp. to 2M)
14" NI, LR, SVGA, 1024x768 .28 Monitor
Mini-tower Case w/200W PS
104 Win'95 Enhanced Keyboard
Logitek 3B Mouseman

\$969/\$979/\$999

Pentium Plus Systems

Intel Pentium 133/150/166/200 MHz CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K Pipe-line Burst Cache
16MB E.D.O. RAM (exp. 128MB)
1.6GB EIDE Hard Drive
1.44MB Floppy Drive
ATI Mach64 Video Card w/1M DRAM
15" NI, LR, SVGA Proview Monitor
Mini-tower Case w/230W PS
104 Win'95 Enhanced Keyboard
Logitek 3B Mouseman

\$1309/\$1389/\$1509/\$1809

Pentium Pro Systems

Intel Pentium Pro 150/180/ 200 MHz CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K Pipe-line Burst Cache
32MB E.D.O. RAM
2.5GB EIDE Hard Drive
1.44MB Floppy Drive
ATI Mach64 Video Card w/2M DRAM
15" NI, LR, SVGA Proview Monitor
Mid-Tower Case w/230W PS
104 Win'95 Enhanced Keyboard
Logitek 3B Mouseman

\$1918/\$2218/\$2418

Upgrade Options

8MB to 16MB\$49
16MB to 32MB\$109
1.2GB-->1.6GB-->2.0GB HD.....\$30/\$30
2.1GB-->2.5GB-->3.0GB HD.....\$30/\$80
14" to 15" monitor\$90
Use Gigabyte/Asus M/B\$40/\$80
Multimedia 10/12/16 X Kit.....\$239/\$259/\$319
Including 10X/12X/16X CD-ROM
16 Bit Sound Card
Multimedia Stereo Speakers
48 CD titles with encyclopedia
Internet Ready upgrade:
Internet Package\$20
33.6 Fax Modem\$89
Pentium is a registered trademark of Intel Corp.

Memory

30 Pin 1M.....\$10
30 pin 4M\$31
72 pin 4M\$27
72 pin 8M\$50
72 pin 16M\$109
72 pin 32M\$219
72 pin 4M EDO\$27
72 pin 8M EDO\$50
72 pin 16M EDO\$109
72 pin 32M EDO\$219
168 pin 16M/EDO.....\$109/\$119

Motherboard w/ CPU

5x86 75/100 MHz\$149/169
Pentium 75/100 MHz\$245/255
Pentium 120/133 MHz\$275/325
Pentium 150/166 MHz\$385/505
P200/6x86/Pentium pro.....\$779/Call

Hard Drives

1GB/1.2GB EIDE HD.....\$229/\$249
1.6GB EIDE Hard Drive\$269
2.0GB EIDE Hard Drive\$299
2.5GB EIDE Hard Drive.....\$339
3.1GB EIDE Hard Drive.....\$399
4GB/5GB EIDE HD.....\$499/\$579
1.08GB SCSI-2 Hard Drive\$319
2.1GB SCSI-2 Hard Drive\$629
3.1GB SCSI-2 Hard Drive\$1099
4.2GB SCSI-2 Hard Drive\$1249

Printers / Scanner

Canon BJ-30/240C/4200C.....\$279/\$249/309
Canon LBP 460 laser.....\$379
HP DeskJet 400/680/690C.....\$269/\$388/\$459
HP DeskJet 820Cxi/870C.....\$509/\$638
HP LaserJet 5L/5N.....\$569/1979
HP LaserJet 5/5M/5Si.....\$1709/2359/3669
HP LaserJet 5MP/4M+\$1370/\$2610
HP 4V/4MV/1600C.....\$2580/\$3819/\$1819
HP 6P/6MP.....\$979/\$1259
Brother HL-641, 300dpi, 6ppm.....\$389
Brother HL-730, 600dpi, 6ppm.....\$439
Brother HL-1660, 1200dpi, 12ppm\$1399
Epson Stylus IIs/500/Pro.....\$229/\$379/529
OkiData 600e/610e/810e.....\$549/\$679/\$1010
HP ScanJet 4S/4P/4C.....\$269/\$649/\$1119
Logitech Page Scanner.....\$399

HD Controllers

VLB EIDE Controller.....\$27
Adaptec 1520/1522 SCSI Ctrl\$85/\$90
Adaptec 2940 SCSI Ctrl\$235
Adaptec 2940W SCSI Ctrl\$269
Adaptec 3940 SCSI Ctrl.....\$509

Tape/Zip/Jaz Drives

Iomega Zip Drive, 100MB, SCSI/Para...\$249
Iomega Jaz Drive, 1G, Int/Ext.....\$505/\$625
Zip 100MB/Jaz 1GB Disk.....\$18/\$109
Colorado T1000, 800MB Int/Ext...\$179/\$229
Colorado Jumbo 1.3 GB\$299
Corner Int. 420MB/800MB\$149/\$179

Monitors

Proview 14"/15"/17"\$239/\$329/\$609
Daytek 14"/15"/17"\$269/\$339/\$659
Acer 14"/15"/17"\$299/\$399/\$749
MAG 15" DX1595/T\$465/\$509
MAG 17" DX1795/T.....\$839/\$959
ADI 4V 15"/5V 17"\$499/849
NEC 15XV+/XE15/XP15\$599/\$745/\$845
NEC 15" C500/M500.....\$549/\$679
NEC 17XV+/XE17/XP17.....\$1095/\$1335/\$1435
NEC 17" M700.....\$1095
SONY 15SF II/SX.....\$619/\$529
SONY 17SF II/SE\$1119/\$1379

Video Cards

Trident 9440 VLB/PCI, 1M\$75/\$33
Cirrus Logic VLB/PCI, 1M\$79/\$39
S3 Trio 64, 1M/2M D\$45/\$65
S3 Virge 3D, 2M/4M.....\$69/\$109
ATI Mach 64, 1M/2M D\$69/\$89
ATI 3D Xpression, 2M DRAM.....\$129
ATI 3D+, 2M/4M SDRAM.....\$169/\$199
ATI 3D+, PC/TV, 2M/4M SDRAM.....\$179/\$209
ATI 3D+, ProTurbo, PC/TV, 4M/8M.....\$269/\$369
ATI Mach 64, 2M/4M V\$215/\$335
ATI TV Tuner Card.....\$139
Diamond Std 64, 1M/2M D\$85/\$105
Diamond Std 64, 2M/4M V\$209/\$299
Diamond 3D 2M EDO RAM.....\$139
Diamond Edge 3D 1M/2M D.....\$139/\$159
Matrox Millenia 2M/4M W.....\$249/\$345
Matrox Mystique 3D 2M/4M.....\$189/\$219

Multimedia

16 Bit PnP Sound Card\$39
Sound Blaster 16 PnP/32PnP.....\$75/\$115
Sound Blaster 32/64 AWE.....\$169/\$269
Panasonic CD-ROM 8x.....\$129
Mitsumi CD-ROM 8x.....\$129
Toshiba CD-ROM 8x.....\$139
Sony CD-ROM 8x.....\$139
Pioneer 12x SCSI CD-ROM.....\$229
NEC 4x SCSI CD-ROM.....\$149
HP Surestore 4020i CD-Writer.....\$1025
Sony 924S CD-Writer.....\$779
Blank recordable CD.....\$11

Modems

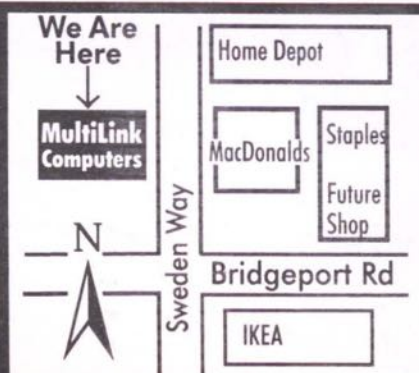
33.6 Kbps Int. Fax/Data\$89
33.6 Kbps Int. Voice/Fax/Data\$99
28.8 Kbps Int. Fax/Data\$85
28.8 Kbps Int. Voice/Fax/Data\$95
Supra 33.6 Int. Voice/Fax/Data\$119
USR 33.6 Kbps Int. Fax/Data\$135
USR 33.6 Kbps Int. Voice/Fax.....\$155

Cases/Keyboards/Mouses

104 Windows 95 keyboard\$20
Fujitsu 8725/4725\$30/\$55
Logitech MouseMan Serial\$33
Logitech MouseMan Bus\$89
13"/15" Tower Case w/200W\$47/\$57
19"/25" Tower Case w/230W\$67/\$97

At MultiLink Computers, we are fully committed to provide you with not only top quality products at low low price, but also excellent service. So whenever you need a system or upgrade/repair, come to see us. Our professional and friendly staff will do whatever they can to meet your needs.

Your Total Satisfaction Is Our Goal!



Business Hours

Mon.-Fri.: 11:00am-6:00pm
Sat.,Sun.: 11:00am-4:30pm

150-12591 Bridge port Rd., Richmond, BC, V6V 1J4
10 - 12851 Bathgate Way, Richmond, BC, V6V 1Y5
(Just to the south of IKEA furniture store's parking lot)

Tel: 278-6805 Fax: 278-6653

Limited quantity. All prices are cash discounted and subject to change without prior notice
All systems have one year Parts and three years labor limited warranty

#45 East Broadway
Vancouver, B.C., V5T-1V4
Tel : (604) 875-8859
Fax : (604) 875-8611
Tech : (604) 879-6800
<http://www.atic.ca>

ATIC

Since 1989

www.atic.ca

\$1750

Pentium Pro (P6) 150Mhz System

Pentium Price P6 Performance

- **Intel** Pentium Pro 150Mhz CPU
- **Intel** Venus VS 440FX Motherboard (ATX)
- **Micron** 32 MB 60ns EDO RAM
- **Micron** Style ATX Case
- **Quantum** 2.5Gigabyte EIDE HD
- **Fujitsu** 1.44MB Floppy
- **Toshiba/Panasonic** 12x EIDE CD-ROM
- **Creative Labs** Sound Blaster 16 PnP w/80w speakers
- **ATI** Mach 64 2MB SVGA Card
- **Fujitsu** 8725 104 Windows'95 Keyboard
- **Microsoft** v.2.1A Intellipoint Mouse w/pad
- **Microsoft** Windows'95 full version on cd
- **Microsoft** Encarta'97, Golf'97/Bob'97, Works'95, Money'97, Explorer'97, Sampler'97

Optional : (w/system only)

14" SVGA +\$200, 15" SVGA +\$300, 17" SVGA +\$550, NEC C500 +\$450, ViewSonic 17GS +\$800, ViewSonic 17PS +\$900, Mag DX700T +\$850

MultiMedia Kits

Golden MultiMedia Kit\$590.00
AWE64, 18x CD-ROM, 230W, MS-home.

Discovery AWE64 kit\$360.00
AWE 64, 12X, 30W, 9 titles

Master MultiMedia Kit.....\$290.00
SB 16 PnP, 12X, 80W, MS-home

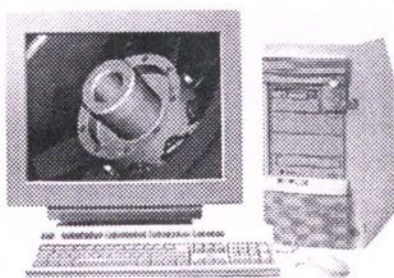
Bachelor MultiMedia Kit.....\$205.00
16bit Sound, 8X, 60W, 10 CD set

Monthly Special

Hard Drive: Quantum 2.5G.....\$315.0
JTS 2.0G /Quantum 3.2G.....\$265/360
WD 2.5G/3.1G.....\$320/320

Printer: BJC4200.....\$320.0
Epson Stylus400.....\$315.0
HP 690C/692C.....\$365/399

Modem: USR 33.6 Voice(1171).....\$138
Creative 33.6 Voice Full-Duplex.....\$98



Quality
Systems with
Quality Parts
and Services

*ATIC bring You
the Leading
Technology !!*

ATIC: Authorized Dealer by

intel

Quantum

hp HEWLETT
PACKARD



Cyrix

SONY

Canon

WESTERN DIGITAL

AMD

DIAMOND
MULTIMEDIA

Robotics

Seagate



Microsoft

TOSHIBA

*"We Pioneered the Past, We Anticipated
the Present, and You can be Sure we're
Working on the Future."*

Professional web-site design and hosting.



Web Page Design

- Web-Site hosting
- DNS Registration
- Total Internet Solutions

Call for demonstration
and quotation.

Phone:

875-0210

Fax:

875-8611

April Special
Edition
Mon. - Sat. 9:30a.m. - 6:00p.m.
(Sundays Closed)

Notebooks

Toshiba

200CDS • P100/8M/810MB/11.8" DSTN	\$2230
430CDS • P120/16M/1.3G/10x/11.3" DSTN	\$2780
430CDT • P120/16M/1.3G/10x/11.8" TFT/10x	\$3650
500CDS • P120/16M/1.3G/12.1" DSTN	\$3050
500CDT • P120/16M/2.1G/10x/28.8k/12.1" TFT	\$5850
510CDT • P133/16M/2.1G/12.1" TFT/10x	\$5800
660CDT • P150/16M/1.4G/11.3" TFT/10x	\$6520
740CDT • MMX-P166/16M/2.1G/12.1" TFT /10x	\$8300

NEC

2430CD • P133/16M/1.0G/6x/11.3" DTN	\$3600
4200 • P100/8M/810M/10.4" TFT	\$3500
4230 • P133/8M/1.0G/6x/10.4" TFT	\$4100
6030H • P133/16M/1.3G/6x/11.3" TFT	\$5375
6030X • P133/16M/1.0G/6x/12.1" TFT	\$5650
6050MH • P150/16M/1.4G/10x/12.1" TFT	\$6700
6050MX • P150/16M/2.1G/10x/12.1" TFT	\$7350

IBM ThinkPad

365XD • P100/8M/1.08G/11.3" DSTN/ 4x	\$2600
365XD • P133/16M/1.35G/11.3" TFT/ 6x	\$4000
760ED • P133/16M/2.1G/12.1" TFT/6x	\$8200
760EL • P133/16M/1.08G/12.1" TFT	\$6000
760EL • P133/32M/2.1G/12.1" TFT	\$6700
760E • P150/16M/2.1G/12.1" TFT	\$7690

Impulse

Reply300 • P120/8M/1.0G/10.4" TFT	\$2400
CB660D • P120/16M/1.0G/11.3" DSTN	\$3000
CB660T • P120/16M/1.0G/11.3" TFT	\$3550
CB660T • P133/32M/2.0G/11.3" TFT	\$4350

SCEPTRE

S3900 • P120/8M/810M/10.4" DSNT	\$2220
S3900 • P133/16M/1.0G/11.3" DSNT	\$2350
4000D • P133/16M/1.3G/6x/12.1" TFT	\$3880
4000D • P150/40M/1.3G/6x/12.1" TFT	\$4800

FIC

LEO 3500 • P133/16M/1.3G/10x/12.1" TFT	\$3990
--	--------

Daewoo

P133-16M/ 1.4G/ 6x / 12.1" TFT	\$3690
--------------------------------	--------

Notebook Accessories

- **Notebook Memory**
8MB +\$110.00
16MB +\$200.00
- **Modems**
Megahertz XJ3336T 33.6 modem + 10BT \$410
Megahertz CC4336 33.6 pcmcia modem \$315
Megahertz XJ4336 33.6 X-Jack modem \$320
33.6 Pcmcia faxmodem \$200
- **Ethernet Cards**
3Com 3C589C-TP PCMCIA \$180
3Com 3C562B comb. + 28.8 modem \$370
3Com 3C562C-TP w/33.6 modem \$410
Xicom 33.6 & TP \$400
- **Batteries, Sound Cards, Backup**
(Call For Pricing)

All listed prices, quantities and specifacations are subject to changed without notice.

A few words on the future of work

Compiled by LARA THAIS KING

Who will hold tomorrow's jobs? Industry and career experts told us what they thought would be the best bets for careers in the twenty-first century. It's not necessarily good news to those of us who thought we were done with education. The consensus is that continual learning is probably the key to success.

Janis Foord Kirk

Careers columnist and author of *Survivability* (published by Kirkfoord Communications Inc.)

"I see tremendous growth in the consulting area...people need two levels of expertise. Need to know how to run the box and how that technology can be used to my advantage. Need to think like consultants and know what problems (in your business) exist. We are becoming more entrepreneurial and that is a good thing. "There are new rules in career-survival tactics, and people who aren't changing worry me."

"Canada is on the verge of growth, which is encouraging. It is still very volatile, but volatility is still growth."

Paul Saffo

Director, Institute for the Future

"In the short run, the 'big' jobs all are in areas touched by the IP protocol. If you pay close attention to the evolution of the IP protocol, and pick areas that are new, you will be busy. "But this begs the question of the long term. In the short run, the best way to stay busy is to maintain specialized skills in high-demand areas."

"But in the long run, the best way to stay employed (and employable) is to cultivate two crucial qualities. First, keep the soul of a generalist, even as you specialize. It is a quality that allows one to see the larger opportunities. And second, keep learning new things. Keep studying when you can, for there is no such thing as a stable job in any area touched by technology."

Chris Fisher

Technical Specialist, solution and applications, corporate services, Bank of Montreal

continued on page 24

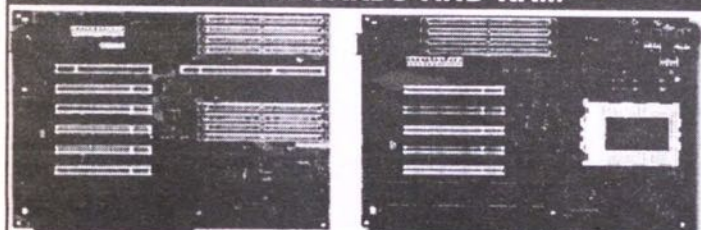
AE ELECTRONICS CORP.

www.aeworld.com 138-2981 Simpson Rd, Richmond, BC Canada, V6X 2R2 Tel: (604) 279-8867 Fax: (604)279-5510

No Surcharge



MOTHERBOARDS AND RAM



Asus T2P4 MMX Pentium PCI MB, 256k PB cache, IDEIO	\$190
Asus TVP4 MMX Pentium PCI MB, 256k PB cache, IDEIO	\$180
Asus Pentium Pro 200MHz PCI MB, IDEIO	\$335
Asus Dual Pentium Pro 200MHz PCI MB, IDEIO	\$825
Intel Pentium 120/133/150/166/200MHz	\$175/215/269/455/725
Intel Pentium Pro CPUs 180/200MHz	\$765/995
30 Pin RAM 4MB	\$35
72 Pin RAM 4/8/16/32MB	\$35/55/115/225

MONITOR AND VIDEO CARD

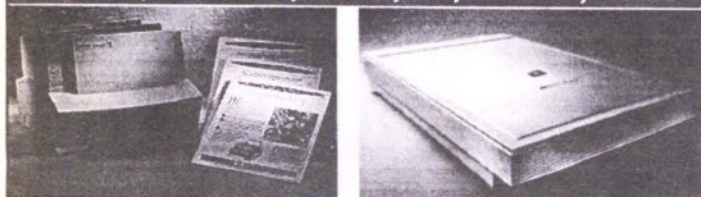


Daytek 1436/1536/1531/1731/1704/2102	\$290/365/380/715/925/2125
ViewSonic 14"1000/15"655/15"656/1769/775	\$349/496/535/769/890
ADI 15"4V/17"5V	\$455/790
NEC CROMA-Clear 15"500/17"700	\$545/1115
Sony SVGA monitor 100SX/100SF/200SX/200SF	\$555/645/960/1180
ATI Video Boost PCI 1MB/2MB	\$88/108
ATI 3D Xpression+ PC2TV 2MB/4MB	\$185/245
ATI 3D Pro Turbo PC2TV, 4MB/8MB	\$279/395
Matrox 3D Accelerator w/2MB Wram Mystique/Millennium	\$190/260
Miro Video Capture board DC20/DC30	\$825/1175

TAPE, ZIP, JAZ, HARD DRIVE, CONTROLLER

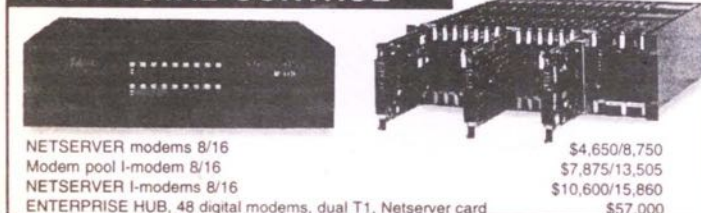
Seagate EIDE 1.2/1.7/2.1/2.5GB	\$270/305/345/375
Seagate Hawk SCSI-2 1.08/2.1/4.3GB	\$505/795/1379
Seagate Barracuda Ultra SCSI-2 1.1/4.3/9.1GB	\$1085/1619/2795
Quantum Fireball Ultra SCSI-3 2.1/3.2GB	\$509/705
Adaptec 2940 SCSI/Ultra/Ultra Wide	\$280/300/455
HP Colorado T1000/T3000/T4000S internal	\$165/260/550
100MB ZIP drive, 1GB JAZ SCSI drive int/ext	\$265 /550/660

MODEM, PRINTER, SCAN, CD, SOUND, CASE



Logitech Serial or PS2 mouse	\$85
USR Sportster fax/modem internal/voice (OEM)	\$147/166
USR Sportster fax/modem external/voice	\$230/269
HP color inkjet printer 400C/690C/820/870CXI	\$269/418/549/689
HP Laser Jet 5L/6P/6MP	\$559/1035/1295
HP Scan Jet 5P/4C	\$549/1255
HP 6020i CD-ROM Writer (Just the Drive)	\$775
CD-ROM Drives 8X/12X/ 12X SCSI	\$140/175/230
Sound Blaster PNP 16/32/64	\$82/135/259
Fujitsu 8725/4725	\$25/59
Heavy duty tower case with 250W PS 19"/25"/ATX	\$125/225/165

USR TOTAL CONTROL



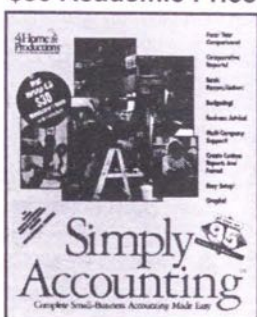
NETSERVER modems 8/16	\$4,650/8,750
Modem pool I-modem 8/16	\$7,875/13,505
NETSERVER I-modems 8/16	\$10,600/15,860
ENTERPRISE HUB, 48 digital modems, dual T1, Netserver card	\$57,000

We host virtual web servers
design web pages
call for rates

We custom make computer security cage to any size.

20" tall tower cage \$175
26" tall tower cage \$195

\$55 Academic Price



\$5515 (In Stock) Toshiba 500CDT



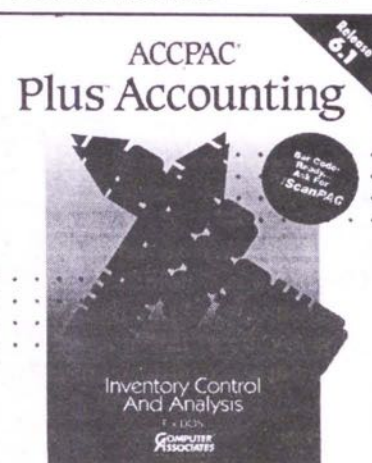
Lease \$192
\$10 buy out
36 months

ACCPAC Plus

Lanpak	\$395
Scan Pac	\$615
Order Entry	\$650
Job Costing	\$650
Sales Analysis	\$375
General Ledger	\$650
Purchase Order	\$650
Retail Invoicing	\$650
Canadian Payroll	\$850
Accounts Payable	\$650
Inventory Control	\$650
Windowing Manager	\$155
Accounts Receivable	\$650

ACCPAC For Windows

Order Entry	\$1395
General Ledger	\$1395
Canadian Payroll	\$1395
Accounts Payable	\$1395
Inventory Control	\$1395
Windowing Manager	\$1395
Accounts Receivable	\$1395
Lanpak 1 user	\$695
Lanpak 5 user	\$3475
Lanpak 20 user	\$13990
Btrieve 20 user	\$1150



ACCPAC for Windows

Professional's choice

COMPLETE MULTI-MEDIA SYSTEMS WITH SPEAKERS, MONITOR AND WIN95 CD

\$3875 PRO200
Lease \$137



- Pentium Pro CPU
- 32MB 60ns RAM
- 256KB cache
- 1.44MB floppy drive
- 2.1GB Seagate EIDE
- 8x IDE CD-ROM
- Built-in EIDE controller
- Matrox 3D 2MB WRAM
- 17" Sony SX200 monitor
- 19" heavy duty case
- 250W Power supply
- Enhanced keyboard
- Microsoft mouse
- SoundBlaster 16 PnP
- Amplified speaker set
- Windows 95 on CD

\$2955 AE166
Lease \$104



- Intel Pentium CPU
- 32MB 60ns EDO RAM
- 256KB PB cache
- 1.44MB floppy drive
- 2.1GB Seagate EIDE
- 8x IDE CD-ROM
- Built-in EIDE controller
- Matrox Millennium 3D
- 17" ViewSonic monitor
- 19" heavy duty case
- 250W Power supply
- Enhanced keyboard
- Microsoft mouse
- SoundBlaster 16 PnP
- Amplified speaker set
- Windows 95 on CD

\$1995 AE133
Lease \$70



- Intel Pentium CPU
- 16MB 60ns EDO RAM
- 256KB PB cache
- 1.44MB floppy drive
- 1.7GB Seagate EIDE
- 8x IDE CD-ROM
- Built-in EIDE controller
- ATI 2M MPEG VGA
- 15" Daytek monitor
- 19" heavy duty case
- 250W Power supply
- Enhanced keyboard
- Microsoft mouse
- SoundBlaster 16 PnP
- Amplified speaker set
- Windows 95 on CD

Areas of Expertise

Windows 95

Windows NT

Novell Netware

Share Fax

Remote Access

Web page design

ACCPAC Accounting

We do on-site service and support. Call our friendly staff for all your computing needs.

Facing a fast, fluctuating future

• • By JIM HARRIS • •

Here is a simple but staggering fact: in the high-tech field, 80 per cent of the technology we will use ten years from now hasn't been invented yet.

I have a notebook computer that is more powerful than a mainframe of only 15 years ago—but 10 years ago notebooks didn't exist. Would you surf the Net without Netscape? *Navigator* was released in October 1994—only two-and-a-half years ago. Many watches today contain more raw computing power than the first lunar-landing module! Bit of a worry if you're an old astronaut.

Many people assume that the future will look pretty much like the past. The past does not predict the future, though. The best way to predict the future is to create it.

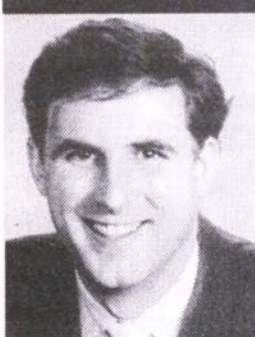
What do you need?

We need to separate form from function. Banking is essential, but banks are not (i.e., the function of banking is essential, but the current form is not). The banks of the future may be named Intuit, Netscape, Sun, and Microsoft, because these companies are investing more in developing online transaction capacities than the traditional banks. Banking in the

future will have more to do with key strokes and mouse clicks than physical geography.

Traditional wisdom holds that only three things matter in retailing: location, location, location. Levi Strauss, however, has introduced the personal pair. Men fit standard sizes quite well but women are all unique—husbands, you know that. Levi Strauss now allows women to log onto the company's Web page, which shows the user how to measure themselves and key in six unique measurements, along with their credit-card number. Ten days later, a custom-made pair of jeans arrives at their door for only \$10 more than the rack price (plus courier costs). Where did location enter into this retailing experience?

GUEST COLUMNIST



What will happen to phone companies' long-distance revenue when we can send digitized voice-messages across the Internet at only the cost of hooking up to the local ISP? Think about video conferencing. What will the impact be on business airline travel when we can hold intercontinental face-to-face meetings right from our workstations?

In 1996, for the first time in the history, e-transactions in the United States exceeded letters carried by the US Postal Service. FedEx's document volumes have fallen by 30 per cent, due to the ease with which we can

now e-mail attached documents.

Shaking the foundations

New developments in information technology are enabling radical new products and services to be delivered to customers. How can individuals and organizations create security in these turbulent times? A staggering 44 per cent of North Americans fear losing their jobs.

In the past, job security was based on working for a large company, in a stable industry, with a clear job description, for 40 years, and then retiring with the gold watch. Now, everything that used to create security creates insecurity. Large companies are net job losers (IBM has shed 200,000 jobs worldwide since 1989—half its workforce). Stable industries are being turned upside down. Job descriptions are out of date the moment they are written (it's flexibility and the ability and willingness to learn that count).

And if you've been in the same position for 40 years, your position is less secure, not more.

So what will create security? Only three things: our ability to learn; our ability to change; and our ability to accept uncertainty. And what do we fear most as adults? Learning, changing, and accepting uncertainty. I call it the learning paradox—our security is based on what we fear most.

If 80 per cent of the technology that I will use in the future hasn't been invented yet, how can I take a course to prepare for the change? How many Java courses were

offered five years ago? The only way to prepare for the future is to take courses that teach me how to think about thinking, how to learn about learning, how to be more creative about creativity, and how, as a team member, I can work better with my colleagues. I call this meta-learning.

Making serious dough

Pillsbury hires a lot of A- and double-A-type personalities—you know, the just-out-of-MBA-school types who all secretly, in their hearts of hearts, know that they will someday be president—not. The CEO is only 40 and he isn't about to retire for 20 years, so how can Pillsbury challenge this group?

Well, they move them laterally. After two years in product development—just when they have become "expert"—the company shifts them to marketing. Two years later, they're moved to logistics, and then customer service. Moving people every two years keeps them challenged, excited, and continuously learning.

After eight years, they have four times the set of skills to market—four times the job security. More importantly, they have learned how to learn. They now carry their security within them.

Jim Harris is a management consultant and professional speaker. He is best known as the coauthor of the *Financial Post's* national bestseller *The 100 Best Companies to Work for in Canada*. The above article is a summary of the theme of his new book, *The Learning Paradox*. If you would like to buy a special advance-release version of it, e-mail sales@strategicadvantage.com ♦

INTERNET LIGHTSPEED

\$19.95 / MO. FLAT RATE ACCESS

OR

\$9.95 / MO.

482-1190

- * NO SETUP FEE
- * TECH SUPPORT
- * LOW USER TO LINE RATIO
- * MODEM SPEEDS OF 33.6 KBPS
- * SOFTWARE INCLUDED

**FULL
T1**

Division of Warlight Industries Inc. - since 1987

<http://lightspeed.bc.ca/>
info@lightspeed.bc.ca



INFOWAVE COMPUTER INC.

Tel: 604.273.1368

Fax: 604.278.5268

Email: ici@axionet.com

1780-4311 Hazelbridge Way, Richmond, BC V6X 3L7

(Within Parker Place Mall with 2nd entrance at 4380 No. 3 Road)

Business Hour: Mon-Sat: 10-7, Sun: 11-7

WWW: <http://www.parkerplace.com/infowave/>



Free Installation:

- Intel Triton II PCI Mainboard w/ 256K PB Cache & AMD K5-90MHz / Intel Pentium-100 \$188/278 or Pentium 133MHz / 166MHz \$338/488
- PCI 64bit 1MB/2MB MPEG Video Card \$48/68
- Panasonic 8x CD-ROM & Acer 16 Sound \$168

Monthly Specials:

- 1.6GB E-IDE (Mode 4) Hard Drive \$268
- Panasonic 12x CD-ROM \$148
- HP 690C Color Printer \$378
- Canon LBP-460 Laser Printer \$348

All ICI systems come with 5-year labor & 2-year parts warranty!

Pentium-133/166

- Intel Pentium 133MHz / 166MHz CPU
- MMX Ready/256K Pipeline Cache
- 16MB 60ns RAM (up to 128MB)
- 1.7GB E-IDE HDD (Mode 4)
- PCI 64bit 2MB MPEG Card
- 15" N-I L-R SVGA Monitor
- 1.44MB 3.5" FDD
- 104 (Windows 95) Keyboard
- Mid-size Tower Case
- MS-Comp. Mouse + Pad
- Panasonic 8x CD-ROM
- SoundBlaster 16 PnP
- 60W Amp. Stereo Speakers
- New Encyclopedia & 25 Games

1438

P-133MHz

\$47/mth*

P-150 +\$60

P-166MHz

1638

P-200 +\$320

\$53/mth*

Upgrade Options:

- Up to 512K P.B. Cache +\$30
- 32MB RAM (from 16M) +\$110
- 2.1G HD (from 1.7G) +\$50
- Acer 33.6 V/F/D/Modem \$130

Software Options:

- Windows 95 (Release 2) \$130
- Windows NT (Statetion) \$280
- Corel WP Suite 7.0 \$120
- MS Office 97 Pro \$480

MMX-166/200MHz

- Pentium 166/200MHz CPU with MMX
- 256K Pipeline Cache
- 16MB EDO RAM (up to 128MB)
- 2.1GB E-IDE HDD (Mode 4)
- ATI 64 2MB MPEG Card
- 15" N-I L-R SVGA Monitor
- 1.44MB 3.5" FDD
- 104 (Windows 95) Keyboard
- Mid-size Tower Case
- Logitech Mouse + Pad
- Panasonic 8x CD-ROM
- SoundBlaster 16 PnP
- 60W Amp. Stereo Speakers
- New Encyclopedia & 25 Games

1868

MMX-166

\$60/mth*

MMX-200

2138

\$69/mth*

Upgrade Options:

- Up to 512K P.B. Cache +\$30
- 32MB RAM (from 16M) +\$110
- 2.6G HD (from 2.1G) +\$40
- Acer 33.6 V/F/D/Modem \$130

Software Options:

- Windows 95 (Release 2) \$130
- Windows NT (Statetion) \$280
- Corel WP Suite 7.0 \$120
- MS Office 97 Pro \$480

FUJITSU PrintPartner Laser Printer

PP-10: 600dpi/10ppm/2MB \$728

PP-14: 600dpi/14ppm/3MB \$838

Pentium-100/120

- Intel Pentium 100MHz CPU
- MMX Ready/256K Pipeline Cache
- 8MB RAM (up to 128MB)
- 1.3GB E-IDE HDD (Mode 4)
- PCI 64bit 1MB MPEG Card
- 14" N-I L-R SVGA Monitor
- 1.44MB 3.5" FDD
- 104 (Windows 95) Keyboard
- Mid-size Tower Case
- MS-Comp. Mouse + Pad
- With Multimedia----->>>>>
- Panasonic 8x CD-ROM
- Acer 16bit Sound Card
- 60W Amp. Stereo Speakers

998

P-100MHz

\$33/mth*

P-120 +\$30

Multimedia

1188

P-120 +\$30

\$38/mth*

Notebook: Hitachi, IBM, Toshiba and more

T O S H I B A

110CS	P100	8M	810M	11.3DSTN	\$1818
110CT	P100	8M	810M	11.3TFT	\$2498
200CDS	P100	8M	810M	11.8DSTN 6X	\$2268
420CDT	P100	8M	1.3G	11.3TFT 6X	\$3498
430CDS	P120	16M	1.3G	11.8DSTN 10X	\$2788
430CDT	P120	16M	1.3G	11.8TFT 10X	\$3698
500CDT	P120	16M	1.3G	12.1TFT 10X	\$5398
510CDT	P133	16M	1.3G	11.8DSTN 10X	\$5800
660CDT	P150	16M	1.3G	10.3TFT 10X	\$6550
740CDT	P166	16M	2G	13.3TFT 10X	\$8118

S C E P T R E

3900	P100	16M	1.0G	11.3DSTN	\$2098
3900	P100	16M	1.0G	11.3DSTN 6X	\$2498
3900	P133	16M	1.0G	11.3DSTN 6X	\$2798

HITACHI

E133DN	P133	16M	1G	11.3DSTN	\$2098
E133T	P133	16M	1G	11.3TFT	\$2728
M100D	P100	8M	810M	11.3DSTN 4X	\$2498
M120D	P120	16M	1G	11.8DSTN 8X	\$2668
MX133T	P133	16M	1.4G	11.3TFT 8X	\$2880
MX150T	P150	16M	2.1G	11.3TFT 8X	\$2880
MX166T	P166	16M	2.1G	11.3TFT 8X	\$2880

IBM

365X	P120	8M	810M	10.4TFT	\$2668
365XD	P120	8M	1.08G	10.4DSTN 4X	\$2578
365XD	P120	8M	1.08G	10.4TFT 4X	\$2948
365XD	P133	8M	1.4G	11.3TFT 6X	\$3798
560	P133	8M	1.08G	12.1TFT ultraslim	\$5555

Drives

1.3GB Fujitsu/Seagate	\$248
1.7GB Fujitsu/Samsung	\$268
2.1GB IBM / WD	\$318/328
2.6GB Fujitsu / WD	\$348/368
3.2GB Quantum / WD	\$418
4.0GB WD	\$488
2.1GB Quantum SCSI II	\$448
2.2GB WD SCSI U / UW	\$818/848
4.4GB WD SCSI U / UW	\$1268/1338

HDD Controllers

Acer SC200 SCSI II Kit	\$128
Adaptec 1522 SCSI	\$118
Adaptec 2940 PCI SCSI Kit	\$260
Adaptec 2940UW PCI SCSI Kit	\$328
Adaptec 3940W PCI SCSI Kit	\$530

ZIP / JAZ Drive

100MB ZIP Drive Para/SCSI	\$260
1GB JAZ Drive SCSI int/ext	\$520/628
100MB ZIP Disc 1/10pcs	\$19/178
1GB JAZ Disc 1/5pcs	\$135/628
Panasonic 4x CD/Optical Drive	\$560

Tape Backup

Ditto 800MB Int/Ext TBD	\$168/198
Ditto 2GB/3.2GB Int	\$250/328
Colorado T1000 800M Int/Ex	\$178/218
Seagate 3.2GB TR-3 Int. TBD	\$298
Traven TR1 / TR3 Tape	\$39/75

Modems

Acer 33.6 Full Duplex Voice Int	\$130
Supra 33.6K Int. Voice/Fax/M	\$128
USR 33.6K Int./Ext.	\$150/228
USR 33.6 Full Duplex Voice Int	\$170
USR 33.6 Full Duplex Voice Ext	\$268
Diamond Video Conferencing Kit	\$498
USR Big Picture Video Phone Kit	\$498

Multimedia

Panasonic 8x/12x CD-ROM	\$138/148
16x EIDE/12x SCSI CD-Rom	\$198/208
Acer 16bit PnP Sound Card	\$38
Soundblaster 16 PnP	\$80
Soundblaster 32 PnP	\$148
Soundblaster AWE 64 PnP	\$248
Backpack 4x CD-ROM Par. Ext	\$298
Backpack 4x CD-ROM / Sound	\$398
SCSI 4x CD-ROM Ext.	\$298
Yamaha M15 Stereo Speaker	\$88

CD Writer

Panasonic 4x2 Int. Kit	\$598
HP SureStore 6020i CD Writer	\$638
HP SureStore 6020e CD Writer	\$768
Yamaha 6x4 Int. / Ext.	\$928/1128
Yamaha 6x4/ scsi card/ sw/ kit	\$1098
Philips / TDK Blank CD Media	\$10

Monitors

Proview 14"/15" N-I L/R	\$238/308
MAG 15" 1595/ 17" 1795	\$468/828
NEC 15" C500 / 15" XV+	\$548/638
NEC 17" M700 / XV+	\$1068/1038
Panasonic 17" S17	\$868
Samsung 15" GLi / GLi	\$438/488
Sceptre 15" N-I L/R PnP	\$368
Sceptre 17" J73S Multimedia	\$728
Sony 15" 100SX / 100SF	\$550/638
Sony 17" 200SX / 200SF	\$968/1168
Sony 17" SE2T 1600 x 1280	\$1398
Sony 20" 300SFT 1600 x 1280	\$2298
Viewsonic 15" 15GS	\$488
Viewsonic 17" V775	\$868
Viewsonic 17" 17GS/17PS	\$868/998

Video Cards

CL 5446 (MPEG) PCI 1M/2M	\$48/68
ATI 2M EDO / 3D Xpression	\$88/168
ATI 3D PC2TV 2M/4M SD	\$178/218
ATI 3D Pro PC2TV 4M SGRAM	\$268
ATI TV Tuner Card	\$150
Creative Lab 3D Blaster 4M	\$268
Diamond 2M Stt64D/3D	\$118/168
Diamond 3D 3400 4M VRAM	\$310
Diamond 3D Monster 4M EDO	\$318
Matrox Myst. 3D 2M/4M SG	\$198/248
Matrox Mill. 3D 2M/4M W	\$268/368

PCMCIA

28.8K PCMCIA Fax/Modem	\$188
3Com EtherLink III PCMCIA	\$180
Adaptec APA-1460 Slim SCSI Kit	\$238
MegaHertz XJ10BT 10BaseT	\$165
MegaHertz XJ4288 28.8 Mdm	\$298
MegaHertz XJ4288M 28.8 Cel	\$328
MegaHertz 33.6K + 10BaseT	\$428
Motorola 28.8K Fax/Modem	\$248
USR 28.8K FaxModem	\$268

RAM/CPU

30pin 1MB / 4MB	\$11/38
72pin 4M / 4M EDO	\$28
72pin 8M / 8M EDO	\$55
72pin 16M / 16M EDO	\$110
72pin 32M / 32M EDO	\$220
AMD K5-90/256K E-IDE PCI	\$190
P-120/256K PBC/E-IDE PCI	\$288
P-133/256K PBC/E-IDE PCI	\$338
P-166/256K PBC/E-IDE PCI	\$498

Networking

ISA 16bit Ethernet Combo	\$38
GVC PCI Ethernet Combo	\$88
3Com 3C509B PCI 10BT	\$150
3Com 3C905-TX PCI 10/100BT	\$180
NT Server 4.0 5 / 10 User	\$999/1238
NT Station 4.0	\$380

Printers

Color Printer

Canon BJC-240 Color	\$238
Canon BJC-4100 Color	\$298
Canon BJC-4550 17"x11" Color	\$598
HP DeskJet 690C Color	\$378
HP DeskJet 820Cxi / 870C	\$510/650

Laser Printer

Brother HL730DX 600dpi 6ppm	\$488
Canon LBP-460 600dpi	\$348
Epson Stylus 400/600/800	\$Call
HP 5L 600dpi 4ppm 1MB	\$548
HP 6P 600dpi 8ppm 2MB	\$998
HP 5 / 5N / 5M	\$1728/2128/2468
HP 4V/5Si/5SiMx	\$2598/3678/5150
Fujitsu 10ppm/14ppm	\$728/838
Lexmark Optra Ep 600dpi 6ppm	\$968
Lexmark OptraR+ 1200dpi 16p	\$1785

Scanner

Epson ES1000C	\$888
HP ScanJet 4P / 4C	\$668/1168
Logitech Pagescan Color	\$368
Microtek ScanmakerE3 Flatbed	\$488

Multi-Linguals

Dragon Writer Chinese/Japanese	\$278
GoGo Pen System 3x3/6x6	\$268/368
TwinBridge Chinese Partner 4.0	\$268



**Sure, EVERYBODY
TELLS YOU THAT IF
YOU'RE NOT ON THE NET,
YOU'RE HISTORY.
WELL, DON'T LET THEM
SCARE YOU.**

LET US SCARE YOU.



The scariest thing in cyberspace is an ill-conceived web site. You've seen them—they're badly designed, cumbersome, too dumb, too smart, unapproachable or just plain silly. And that's just the stuff you can see. But what can really hurt is the part you can't see. Behind even the niftiest graphics is where the question of a web site's real integrity is answered: its backbone.

iStar was the first Canadian internet company to mount a nationwide network backbone dedicated solely to internet traffic. The partners we chose to help build it include the best in the business: SUN Microsystems, CISCO Systems, US Robotics and Microsoft.

The result? No one can touch us for the quality and clout of

our infrastructure. (Here's a fun fact: our backbone is so powerful it provides many of our competitors with theirs.) And nobody can approach our reliability, flexibility and speed.

iStar's current roster includes 10,000 corporate clients—more, by far than any other provider—many of whom number among the FP 500. And because our commerce service is endorsed by several major Canadian banks, these clients are assured of unparalleled security.

Sure, this entity called the internet is uncertain—a pretty good reason why the internet company shouldn't be.

Call us and we'll make sure you avoid the pitfalls. But we'll also make sure you see the extraordinary possibilities.



1-888-GO iSTAR / www.istar.ca.

Overcoming barriers to learning

•• By JUNE CAMPBELL ••

Many of us agree that computer literacy is an asset when you're job hunting, and lack of computer knowledge can be a roadblock to getting and keeping employment. For some, learning computer skills is as simple as signing up for a course at the local community college and practising on the family PC. For the less fortunate, however, geographic, economic, language, health, and availability factors can be a barrier.

Various BC societies and organizations are helping special groups bridge the gap by providing computer-related training, usually at no charge to the user. The following list of providers is by no means complete.

The Arbutus Vocational Society, in Vancouver, offers computer-skills training (as well as other skill-development programs) to persons suffering from severe and chronic psychiatric illnesses. Students build up stamina and gain skills according to a negotiated schedule that accommodates the effects of their illnesses. Graduates demonstrate entry-level skills in keyboarding, word processing, electronic-spreadsheet use, e-mail, and, optionally, familiarity with an electronic accounting package. A resume, a work-experience placement, and hopefully a reference complete the picture. Referrals to job-placement agencies are available.

Looking north to Terrace, Interconnect, administered by the Terrace and District Community Services Society, provides computer skills training to persons experiencing various barriers to employment. Students

from Terrace and Kitimat are referred and financed by the Workers Compensation Board, Canada Employment Centre, ICBC, or by Vocational Rehab Services. Training includes entry-level computer skills, resume writing, and computer-assisted academic learning using the PLATO system.

Work-experience placements are available according to need and interest. Interconnect, operational since 1987, is the first facility in northern BC to receive accreditation from the Private Post Secondary Education Commission of BC.

Skill Enhancement Training (SET), New West Division, in New Westminster has helped approximately 180 people acquire computer-literacy skills and ESL (English as a Second Language) training. SET was implemented in 1994 as a joint Labour-Management plant initiative of MacMillan Bloedel Ltd., New Westminster Lumber Division.

The plant's culturally diverse employee population represents an established workforce, many with 20 or 25 years of employment history. SET participants volunteer for training in order to develop new skills in response to technologically changing work requirements, or to arm themselves with marketable skills in the event of possible layoffs.

According to instructor Merv Graham, "Many go on to get GED training or to get high-school diplomas. They (the participants) are really enthusiastic and motivated in what they're doing."

SET, administered by an employee committee (SET Committee), was the first project of its kind in BC, and is currently viewed as a

model for similar programs in other mills. Forestry Renewal BC (FRBC) now provides funding for approved initiatives of this type.

Assistance for women

In Sechelt, the Sunshine Coast Women's Resources Society has been offering computer- and Internet-skills training to local women for the past 15 months. Approximately 120 women have utilized the services to date. As Chairperson Lynne Hauka remarks, "in this community we have become the organization to which women who are at all skill levels turn for (computer) assistance and advice."

The agency's three computers are connected via a LAN and all have dial-up Internet connectivity. Training ranges from informal (drop-in) to more formally structured HTML classes. Funding is through donation and from HRDC.

The Society's new Tech.Kno project is currently conducting a survey of high-technology employers (see their Web site for details). The goal is ultimately to develop a telecommuting centre and to train by apprenticeship a pool of people who have had their skills assessed and upgraded to suit the needs as described by the employers who participate in the survey.

New kid on the block Wired Women Society in Vancouver includes multimedia training in its mandate. According to president Emma Payne, "we want to provide girls and young women the opportunity to learn and understand new media. We feel that girls can, as a result of training, have a different and improved outlook of themselves and the world. The training is meant to be a fun and informative way to discover potential creative talents that many without

computers fail to realize."

Two-hour courses, including introductory Internet, graphics, e-mail, and research, are available. Groups will be asked to pay, but will not be turned down if they cannot. Negotiations are underway with Big Sisters to provide training to their girls, and discussions with APACE are exploring the possibility of providing cosponsored training events and materials that will increase Wired Women's scope in the community. Funding is carried out through Wired Women's Fundraising Committee.

June Campbell is the owner of Nightcats Multimedia Productions. You can reach her by e-mail at June_Campbell@mindlink.bc.ca or by phoning (604) 980-3219 during business hours. ♦



Arbutus Vocational Society
(604) 872-0770
Interconnect
(250) 6335-7995
iconnect@kermode.net
Skill Enhancement Training New West Division (SET)
getset@intergate.bc.ca
(604) 527-2429 or (604) 527-2431
Sunshine Coast Women's Resource Society
<http://www.sunshine.net/www/400/sn0470>
heather_gordon@sunshine.net
Wired Women Society
www.wiredwoman.com
epayne@webpool.com

The freedom to work all the time

•• By CARYN MLADEN ••



Careers today are the perfect example of what I call "creeping spec." When you're working on a consulting project of any kind, creeping spec (short for "specification") occurs when your client asks you for small, seemingly insignificant changes in the ongoing project. Pretty soon, all these small changes evolve into a new and completely different project.

Over the past few years, a silent revolution has occurred: employees became contractors; the "standard 9 to 5" became "flex-time," and then became "milestone invoicing," and benefits became non-existent. Today, not only is there no job security, but many people don't even have the expectation of it anymore. The public has no confidence that their government-promised pensions will be available when they reach the time to collect them. There is infrequent continuity from one job to the next. And yet, people are adapting extremely well—at least in the new media industry.

Lifestyle changes

Yes, it's a contractor lifestyle in the nineties. We belong to no particular company, and yet we have many particular associations and connections. Many contractors work for the same company for long periods

of time and become associated with their "job" while retaining contractor status simply because the company has a policy not to hire employees.

Meanwhile, contractors are free to do a variety of different things. It makes it difficult to define yourself anymore but, after you get over the initial feeling of being in employment limbo, this lack of definition is very liberating. Meet people at a trade show and find out what they need. You're a contractor. Can you manage projects? Sure. Can you write business plans? Sure. Can you head up the new media division for our company? Sure, why not?

While people move from contract to contract and are more personally motivated than in the past, a sense of loyalty persists. Largely, this loyalty is drawn out of a sense of pride in one's work, but it also relates to the concern to keep up customer relations. Happy clients hire you back and give great references. Most contractors finding assignments get them by virtue of their reputation in this burgeoning industry.

Go SOHO!

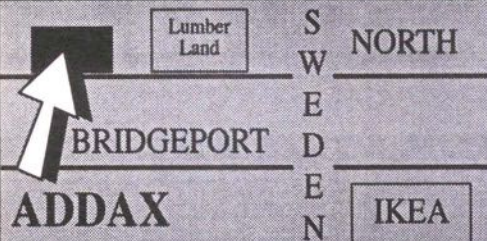
What else has changed? Digital media, of course! Today, the paperless office is possible as documents travel online. The advanced efficiency of tools for SOHO (Small Office, Home Office) environments have made working out of your home simpler and more

cost effective. A good computer, modem, software, business cards, and service-bureau access are all the basics you need to create an impressive presence out of your basement. You make initial contacts or solidify deals at trade shows; otherwise there is little need to meet in person.

Comfort is another benefit of the digital contractor lifestyle, along with the more relaxed wardrobe. Don't forget, you can also write off the part of your home that you use for work.

Then there's the time you save by telecommuting. At least, we all pretend to have more time. "When there's nothing pressing, I can just take off for a matinee!" The reality is that we work all the time. You can't leave your work at the office; you have to live with it. You book in meetings at odd times—why not chat with a client in Germany at 4:00 AM? There's the all-encompassing guilt we feel about relaxing when we could pick up the laptop and finish that report.

And this is the final lesson to learn from the transformation of careers. Our relationship to work has become more personal. While our job titles reside in limbo, we are more attached to what we create and what we label as our own. There is still much work to be done, but we must constantly be our own PR agents. In effect, today more of us have careers where once we had only jobs. ♦



ADDAX

Best quality, Best service, Wholesale Prices COMPUTER Inc.

#21-12391 Bridgeport Rd.
Richmond B.C. V6V 1J4
Tel: (604) 244-0793
Fax: (604) 244-9762
Mon-Sat: 10am to 6pm

Prices are subject to change without notice!

Systems are Internet Ready with 1 month FREE access. 3 years labor and 1 year parts warranty.

586 PCI SYSTEM 5x86 - 133mhz CPU

PCI/ISA MB w/4x72 Pin Slots
Fast I/O 4 EIDE & 1P/2x16550
8MB EDO RAM 60ns
1.08 GB Seagate EIDE Hard Drive
Panasonic 1.44M Floppy Drive
64 bit PCI 1M SVGA Video Card
14" NI/LR .28 SVGA Monitor
104 Key win95 Keyboard
Addax 13" Tower Case w/230w PS
3 Button Mouse & Pad

\$778!

MULTIMEDIA OPTIONS \$179

Panasonic 6x CD-ROM Microphone
16 bit PnP Sound Card 60W Speakers

SUPER DEAL

Cyrix 6x86 P150+ \$1598
Cyrix 6x86 P166+ \$1638
Cyrix 6x86 P200+ \$1748

Triton III PCI MB, 512K Pipeline Cache
Fast I/O, 4EIDE & 1P/2X16550
4x72 & 1 x 168 Pin SDRAM, USB
32MB EDO RAM
12x Panasonic EIDE CD ROM
2.1GB EIDE Hard Drive
Panasonic 1.44MB Floppy Drive
S3 3D 64bit 2M (exp.4M) MPEG Video
15" Acula NI/LR/Digital/Flat Monitor
Zoltrix 33.6 Voice Fax Modem
Yamaha 3D Surround PnP Sound Card
Mitsumi 104Key Win 95 Keyboard
Mitsumi Mouse & Pad
Addax 19" Case w/230w PS
60W Amplified Speakers

POWER SYSTEMS

Pentium CPU:
P 100/120/133 \$858/878/928
P150/166/200 \$989/1149/1399
MMX P166/P200 \$1299/1599
PRO 150/180/200 \$1239/1689/1819

Cyrix/IBM 6x86 CPU
P150+/P166+/P200+ \$889/939/1049

AMD CPU
K5-75/90 \$799/819

Intel Triton Chipset 256K PL Cache
Fast I/O, 4 EIDE & 1P/2x16550 USB
8MB EDO RAM 60ns
1.08 GB EIDE Hard Drive
Panasonic 1.44M Floppy Drive
64 Bit 1M (exp 2M) PCI MPEG Video
14" NI/LR .28DP 1240x 768 Monitor
Mitsumi 104Key Win95 Keyboard
Mitsumi Mouse & Pad
Addax 13" Tower Case w/230W PS

MULTIMEDIA SYSTEMS

Pentium CPU
Intel P100/120/133 \$1339/1359/1409
Intel P150/P166/200 \$1449/1609/1879
MMX P166/P200 \$1759/2019
PRO 150/180/200 \$1709/2169/2299

Cyrix/IBM 6x86 CPU
P150+/P166+/P200+ \$1369/1419/1529
AMD K5-75/90 \$1279/1299

- Intel Triton III chipset 256K PBC
- 15" Acula NI/LR Digital/OSD/FLAT
- 16MB EDO 60ns RAM
- 64bit 1M(exp.2M) MPEG Video
- 16 PnP Stereo Sound Card
- Mitsumi 104 Key Win95 Keyboard
- 33.6 V3.4 voice Fax/modem
- 60W Stereo Speakers
- 2.1 GB EIDE Hard Drive
- 15" Tower Case 230w PS
- 8xCD-ROM EIDE
- 1.44 Floppy Drive
- Mouse & Pad

We sell various computer and internet books for less than half prices!

PCI VIDEO CARDS

Trident 9680 64bit MPEG\$46
Cirrus Logic 5446 1m MPEG46
Cirrus Logic 64bit 1M MPEG34
S3 Trio 64V+ 1M MPEG49
S3 3D MPEG 2M (Exp to 4M)71
Diamond Stealth 3D 2M129
ATI 3D Expression 2M115
ATI 3D +PC2TV 2M SDRAM159
ATI 3D +PC2TV 4M SDRAM199
Trident 1685 3D PC2TV82
Matrox Millennium 2M/4M W259/339
Matrox Mystique 2M/4M SG175/218
STB Velocity 4M VRAM215
STB Lightspeed 128 bit 2M MDRAM149
Video Card EDO RAM 1M15

MONITORS

14" KTX NI/LR\$224
14" ACULA NI/LR239
15" Meg Image NI/LR/Dig./Flat339
15" KTX NI/LR/Digital/Flat339
15" ACULA NI/LR/Dig?OSD/Flat349
15" Sceptre NI/LR/Dig./Flat349
17" Sceptre J73 Multimedia OSD699
17" Sceptre NI/LR/dig./Flat/OSD649
17" Acula NI/LR/Dig./Flat/OSD649
17" KTX NI/LR/Dig./Flat/OSD649
Samsung 15" GLE465
Samsung 15" GLI495
Samsung 17" GLI849
Samsung 17" Glsi1019
MAG DX1795E .28DP755
MAG DX1795 .26DP835
MAG DX700T .25DP950
ViewSonic 15" GS509
ViewSonic 17" PT 770998
ViewSonic 17" GT 770925
ViewSonic 17" GS/PS838/969

**Upgrade Your 386/486 to
5X86-133 MHz for \$159
FREE INSTALLATION!**

MOTHERBOARDS

Pentium Triton III PCI MB MMX ..\$128
4EIDE 1P/2 x 16550 256K PL Cache
Tayan Tomcat III Dual P5/512k325
ASUS T2P4 HX 256K PL MMX175
ASUS VX 256K PL MMX167
586/486 PCI/VLB/ISA MB85
Fast I/O, 4EIDE, 1P/2x16550, 4x72pin
GA-5MS ATX 256PBC 8-512MB165
GA-6FX Pentium Pro 512K PBC 8-512MB299
GA-6DX P-Pro Dual CPU 512K PBC .549

PRINTERS

Canon BJC240 Color Printer\$224
Canon BJC4100 Color Printer299
Canon LBP 460 Laser339
Panasonic KX-P6500 300 dpi 6PPM 459
Brother HL730DX true 600DPI 6PPM435
Brother HL760DX true 1200DPI 6PPM544
Bro.HL1660 True1200DPI 17PPM .1385
Bro IC-100 Scanner 400 dpi89
Bro IC-150 Scanner 400 dpi OCR ..109

TOWER CASES

13"/15" Tower Case w/230wPS ..\$46/52
17"/19" Tower Case w/230w PS ..57/65
ATX Desktop Case w/PS105
ATX 19" Tower Case W/PS125
Full Size Tower Case w/250W PS ...95

FAX/MODEMS

Zoltrix 33.6 Fax/Modem\$94
Zoltrix 33.6 Voice Fax/Modem115
Acer 33.6 Voice Fax/Modem115
Appachi 33.6 Voice Fax/Modem99
USR 33.6 win Fax/Modem125
USR 33.6 Fax/Modem149
USR 33.6 Voice/Fax/Modem159
GVC 33.6 Voice/Fax/Modem Ext165
KTX 28.8/33.6 Fax/Modem Ext .128/145

Notebook.....Call

HARD DRIVES

1.08G/1.7G/2.1G EIDE ..\$215/249/275
2.5G/3.1/3.5 EIDE325/385/415
4.1 G/5.1G EIDE495/609
Quantum 1.7G/2.1G269/299
Quantum 2.5G/3.2G/3.8G .339/379/419
WD 1.6G/2.1G/2.5G279/315/359
WD 3.2/4.1G399/485
Quantum 1.2G SCSI359
Quantum 2.1G SCSI475
Fast SCSI Controller169

SOUND CARD

ESS 1868 16bit PnP\$28
Zoltrix 3D 16bit PnP35
Yamaha 3D Surround PnP42
Sound Blaster 16bit PnP84
Sound Blaster 32 PnP129
Sound Blaster AWE 32 512K RAM .145
Sound Blaster AWE 64 Retail Box .245
60W Speakers20
240W Speakers59
300W Speakers75

CD-ROM

4X Panasonic/Creative EIDE\$85
6x Panasonic EIDE109
8x Hitachi/Mitsumi129
8x Tatung125
12x Panasonic145
12x Toshiba159
Pioneer 12x SCSI227
NEC 4x SCSI147

Keyboard/Mouse/Misc.

Misumi Win95 Keyboard\$20
MS Natural Keyboard85
Mitsumi Mouse8
MS Mouse29
Logitech 2B Mouse18
ISA 16bit PnP Ethernet card37
PCI 32 bit PnP Ethernet Card47
5 Port Ethernet 10Base - T Hub98
8 Port Ethernet 10Base-T Hub124
16 Port Ethernet 10Base-T Hub169

MEMORY

30pin 1M/4M\$9/30
72pin 8M/EDO59/59
72pin 16M/EDO118/118
72pin 32M/EDO230/230
256K/512K Pipeline Cache20/40
256K Asynchronous SRAM Cache ...25

CPU

AMD 5x86-133 MHz\$52
Intel P100/120/133138/148/189
Intel P150/166/200225/379/642
MMX 166/200505/769
Pro 150/180/200295/750/885
Cyrix 6x86 P120+/P150+119/139
Cyrix/IBM 6x86 P166+189
Cyrix/IBM 6x86 P200+289
AMD K5-75/90MHz55/72

ZIP DRIVE

Panasonic ZIP Parallel Ext\$210
Iomega ZIP Parallel Ext247
Iomega ZIP SCSI Int250
Zip Disk 100 MB17.50

UPGRADE OPTIONS

8M to 16M to 32M\$59/118
256K PL to 512K20
14" to 15" to 17" Monitor99/289
1.2G to 1.7G to 2.1 G HD\$40/35
13" to 15" to 19" Case10/10
Win 95 SR2 Full Version CD105
MS Office Pro 7.0269
Video RAM 1M to 2M to 4M15/28
Speakers 60w to 240W to 300 W .29/12
CD-ROM 8x to12x25

We do not accept credit cards

LEASING IS AVAILABLE

3.5" Floppy Disket\$0.29
Moveable Hard Drive Case29
Power Core Split5
PS2 Mouse and Keyboard adaptor ...5

ADDAX@ Computer is USA based computer wholesaler which has been successfully serving our customers since 1989. We sell parts and systems at wholesale prices.

WWW.ZEVEN-INC.COM/COMPUGUIDE

WIN!



AN IBM P133 365XD THINKPAD
NOTEBOOK COMPUTER
AND LOTS MORE.....

*Enjoy your tour to the
sites of many local
Computer stores and
browse through our
many features including
Hot Deals Corner
New product Reports
Cool Links
Monthly Prize Draws*

Come to visit us at
www.zeven-inc.com/compuGuide
and enter our Lucky Draw

CompuGuide

G R A N D O P E N I N G



D R A W

BIG

SPONSOR OF OUR BIG PRIZE



The Better Place To Buy
WWW.ZEVEN-INC.COM/BUSINESS/NNET.HTM

Y2K specialists: A seller's market

• • By LEE LESTER • •

Headhunters have a vanishing species in their sights. Their target: anyone who knows COBOL, Fortran, or Program I. Programmers and project managers familiar with the main-frame computer languages of yesteryear are being sought worldwide as the year 2000 (Y2K) comes ever closer.

And the fees of the only people who can squash the millennium bug are soaring. Only two years ago, they could command Can\$35-40 an hour. Today, they are pulling in \$50-60. And researchers at Giga Information Systems forecast that could rise to US\$150 within two years.

"Their rates are going up 80 per cent a year," says Y2K expert Peter De Jager. And, he warns, the sky could be the limit for organizations desperate to avoid the consequences of computers becoming inoperative as the millennium nears.

The problem, of course, stems from dates being stored with only two digits for a year instead of four, so that computers cannot distinguish between 1901 and 2001, for example. Information Technology Association of Canada vice president Peter Broadmore warned a Commons committee last November: "The so-called millennium bug is a problem for all date-dependent calcula-

tions and will affect every application in which information technology is applied, in banking, insurance, investment funds, security systems, air traffic control, traffic lights...

"Cheques will not be printed, invoices won't be produced, payroll and pension systems will break down, and many businesses will simply cease to operate.

"Already, many observers believe that lawsuits, bankruptcies, and business failures are inevitable consequences of the problem...a bankruptcy rate of up to 5 per cent could result directly from costs related to Y2K problems."

Where has all the Fortran gone?

Those who can rewrite the millions of lines of code are in short supply. The programming languages they worked with peaked in the early 1970s. Since then, many have retired, died, or been promoted to executive jobs. Inducements to come out of retirement or do "grunt work" again are unlikely to coax many to return.

Those that do are unlikely to be familiar with much of the additional software, written in other languages, which has been grafted onto the original applications.

New graduates are unwilling to learn yesterday's languages. Even the lure of high pay is unlikely to attract youngsters who, after three years of solving the Y2K problem, must

then join a workforce where they will not have the up-to-date skills of their peers who, in the meantime, continued to build their familiarity with more modern languages.

There is already a worldwide shortage of computer personnel. Canadian companies have to face US recruiters flowing over the border in force, dangling tempting propositions to anyone with the required skills. It is hard to fight the appeal of better pay, better climate, and better prospects.

Debbie McGrath, president of the CEO Group Inc., which organizes job fairs, points out that more than half the local newspaper advertisements for IT professionals offer jobs in the United States. So did a majority of exhibitors at a recent recruiting event.

Long, long distance

So desperate have some companies become that they are outsourcing the rewriting of their code to places as far away as India and the Philippines. But, says ITAC's Broadmore, even those places cannot cope with the demand for their services. He suggests lowering immigration barriers to allow more skilled IT workers into Canada.

In the meantime, the few who can deal with the millennium bug look set to make big bucks, even as they work to put themselves out of work. ♦

A few words on the future of... continued from page 17

"What you need is a good technical base tempered with people skills, management abilities, and an understanding of business.

"The big bucks are in project management. Big corporations want employees who understand technology and will implement it. People with team-building, leadership, and coordinating skills." Fisher says another good area to look into is Wide Area Networking.

Keith Schengili-Roberts

Technical Writer, KL Group

"It's always hard to predict the future of the job market, especially in the high-tech business. Two years ago, Java didn't even exist, so it would've been hard to predict the whole marketplace that has blossomed due to Java.

"Having said that, it's safe to say that if you are interested in programming, learn Java—now. While it is not receiving a lot of publicity, most major software firms are looking for Java programmers.

"Another likely job-growth sector is for people capable of handling the alpha-to-omega of Web sites. True Web-site management not only includes the ability to write good HTML, but maintaining a Web server, writing code to process things like forms, create and use eye-catching graphics, and anything else that is required. Expect Web-server management to become more and more like a Network Administrator job over time, especially as corporate-wide intranets become more common." ♦

Internet: Shmoozing at the speed of light.

The Internet brings a whole new meaning to "networking"!

Now every business, regardless of size or type, has the opportunity to "network" on the world's largest computer network...the Internet. The fact is, Canadian business is waking up to the value of Internet Access and Presence at an unprecedented rate, recognizing the impact of the Net from marketing to communication functions. Imagine extending your market area beyond national boundaries, interacting with new business prospects without solicitation, saving hundreds, even thousands of dollars on your telephone and fax bills...and that's just the beginning! Question is...where does your firm fit into the picture? At Imaginet, we specialize in helping businesses determine their Internet needs, and providing the right corresponding Internet solution.

Imaginet is a full service Internet Access and Presence company, with services including: Corporate Dial Up Accounts / Dedicated Access Accounts / Web Page Design / Web Page Storage / Virtual Web Servers / Domain Name Registration / Classroom Internet Training ... and much more!

For more information about Imaginet, or to receive a free consultation, call us at 662-8332. dedication...imagine.that

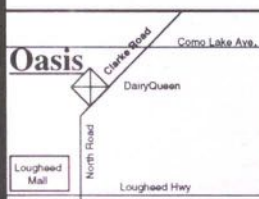
imagi.net
www.imagi.net INTERNET

Oasis
COMPUTER INC.

Oasis Pentium 133 Power System

Intel Pentium 133MHz CPU
586 ISA/PCI (Triton II VX Chipset) M/B
256K Pipeline Burst Cache
16MB EDO 60ns 72PINS RAM
Panasonic 1.44MB Floppy Drive
1.7GB EIDE (Mode 4) Hard Drive
New S3 3D Virge PCI 2MB Video Card w. Game
12X EIDE CD-ROM
ESS 1868 16 bit Sound Card
60W Power Speaker w/AC Adaptor
Acer 33.6Kbps Fax/Voice/Data Int. Modem
15" Mid-tower Case w. 230 Power Supply
104 Keys Windows 95 Keyboard
Logitech 2B Mouse w/Pad
Windows 95
Microsoft CD Home Bundle
14" .28mm dpi 1024 Digital Control Monitor
Internet Kit w/30 days Free Trial
2 Yrs Parts and Labor Limited Warranty
\$1,650

Please call for upgrade option



Express Micro Machine & Tangent System
Coquitlam Authorized Dealer
3 years Canada wide warranty available
Computer Tutor is available... Windows 95, Office 95, Excel, etc.
Lease to own! Please Call more detail
Repair & Upgrade welcome, price subject change without notice
All items are the cash price.
Effective date from March. 28, 97 to April. 28, 97

2-555 Clarke Road, Coquitlam, B.C. Tel:931-8803 Fax: 931-8874
Mon. - Sat. 10:00 to 6:00 Sun. & Holiday Closed

Video Card

S3 VIRGE 3D 2MB EDO RAM	\$85
NEW ATI 3D PRO 4MB SGRAM	\$240
ATI 3D Xpress+ 2MB / 4MB	\$155 / \$190
Matrox Mystique 2MB	\$180
Matrox MGA Mill 2MB/4MB WRAM	\$250 / \$340

Hard Drive

Special 1.0GB/2.0GB	\$215/\$275
Seagate 1.0GB / 1.7GB EIDE	\$235 / \$298

Monitor

TVM 14"/15"/17"	\$259/\$358/\$695
Optique 15" V655 / 17" V775	\$430/\$845
Viewsonic 15" 15GS	\$485
Viewsonic 17" 17EA	\$830
Viewsonic 17" 17PS/PT770	\$985/ \$995
Viewsonic 21" PT810/P815	CALL

Multimedia

8X / 12X / 18X CD-ROM	\$125/\$145/\$205
Yamaha CD-400 RecorderExt/Int	\$1,030 / \$895
Sound Blaster 16 Sound Card	\$85
Sound Blaster OEM 32/ AWE 64	\$130 / \$255

Back Up

Imaginet Ditto 800MB Int / 2GB Int. Tape	\$160/\$215
Imaginet Ditto 3.2GB Int. Tape	\$315
Imaginet 100MB Zip Drive Parallel/ SCSI	\$260

Printer

Best Buy Brother 760DX Laser Printer	\$565
Cannon BJC-4100	\$308
EpsonColor 400/ 600/800	\$340/ \$406/ \$595

Modem

Supra Express 33.6 Fax/Voice Int. Modem (OEM)	\$135
U.S.R. 33.6 Fax/Voice Modem Int./Ext.	\$175/\$259
Acer 33.6 Fax/ Voice Modem Int./SVD Modem	\$105 /\$120

Bugs aplenty for Microsoft Explorer

• • By PAUL ANGYAL • •

<http://www.microsoft.com/ie/> or call 1-800-322-9997 for information on order-

ing a floppy-disk version.
One final note: the bugs affected Explorer 3.0

and 3.01 running over Win95 and WinNT. The Mac version, however, was fine. ♦

What started out as a bad-hair day, quickly turned into a mini PR-disaster.

On March 3, the story hit the fan that a security flaw was discovered in the Explorer browser by some innocent high-school students, one which would allow a Web operator to enter your PC through an LNK or URL file (commonly known as shortcuts) and secretly run your programs.

Move on, nothing to see here

Trying to give it as little play as possible, Microsoft first stated that "no customer has complained," nevertheless "a fix will be made available as soon as possible." That could have been the end of it, had another pesky group of students not discovered another bug in the same program, only a day later. This one would allow a hacker to remotely download and install viruses from a Web site for you.

The day wasn't even over when yet another leak was reported, this time with Explorer's mail and news readers. You find a message on a Usenet group to visit a link and download a program. If you do, chances are that you only download a shortcut, which, when executed starts happily deleting files from your hard drive. By Friday, Microsoft's whole attitude changed. Somebody on the inside with brains must have woken up and *voilà*, a whole "security Web page" appeared with messages telling us that "they care." A combination fix was in, a 1-800 number was installed and—believe this—tech support responded to special e-mail queries on Sunday.

Coincidentally, a lengthy news story was posted alongside, describing in great detail the "major security hole" found in Sun's Javasoftware ("yes, your honour, I am guilty, but he is guiltier"). Unfortunately, the "triple-fix" posted by Microsoft apparently doesn't play all the holes. More as this situation develops.

This just in

Microsoft has released a patch for their Internet Explorer Web browser (Windows 95 and NT versions) that is claimed to alleviate a major security hole in the software. Without this patch, it is possible for a remote site to run a program on the local computer's hard drive, possibly resulting in data loss or damage.

Download the patch from

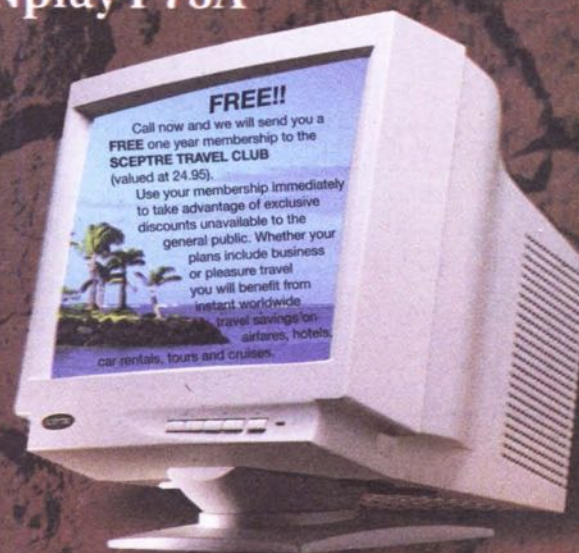
Sceptre: Quality Without Compromise

Sceptre WINplay P75A

Just one in a complete line of award-winning, Windows '95 compatible CRT monitors.

17 inch, .26 dot pitch, non-glare, flat screen
(15.9 inch diagonal viewable image)
1600 x 1200 (@ 70Hz) resolution
advanced on screen digital controls
low radiation (MPR II, TCO)
3 year warranty

Sceptre's family of 14, 15, 17, and 21 inch CRT monitors comply fully with DDC1 / DDC2B protocols ensuring maximum compatibility with Windows '95 from Microsoft. They also feature VLMF or MPR II standards and a smaller, footprint for saving space. As an ISO 9001 manufacturer of notebook computers, CRT and LCD flat panel monitors, Sceptre Technologies has the ability to maintain high quality standards and competitive pricing.



Sceptre FT15

The future of LCD computer monitors. Today.

15 inch TFT display (14.5 inch measured diagonally)
plug and play XGA (1024 x 768 resolution)
small footprint (15.5" w x 13" h x 7" d with stand)
wall mountable (15.5" w x 13" h x 2.5" d)
advanced on screen digital controls
windows '95 compatible

Sceptre's high resolution LCD's, including the 15" FT15, the 12" LT12S (beige) and LT12SB (black) offer a whole new world of solutions not possible with traditional CRT monitors. An extremely small footprint allows use where space is at a premium. Sceptre LCD's emit no radiation, making them the ideal choice in environments where radiation is a major concern - such as hospitals and laboratories. Sceptre's radiation free displays won't disrupt magnetic imaging or other frequency sensitive work. Sceptre radiation-free LCD's eliminate emission-related health issues and are also flicker-free, reducing the potential for eye strain.

Free with purchase of any monitor !!

For a limited time only (while supplies last), receive with the purchase of any Sceptre CRT or LCD flat panel monitor this beautiful, high-quality pen set, a \$39.95 value. (Compare with Parker® or Mont Blanc®) All you need to do is to send in this coupon, a copy of your proof of purchase, and your warranty card. It's that easy! But you need to hurry as quantities are limited.

Two pen set with 17" CRT or any size LCD monitor. Single pen with 15" or smaller CRT Monitor.

For complete product line information call :



SCEPTRE

EXCELLENCE FOR ALL THE WORLD TO SEE
<http://www.sceptretech.com>
1-800-788-2878



COMPUCENTRE

Visit us at Comdex Canada '97, July 9-11, Booth #5122

Features of the **SuperCRX-2001 & CRX-2001** Computer Desks

- ☐ Design Bio Mechanic
- ☐ Recycle Material
- ☐ Easy to assembly
- ☐ Spaceless (spacesaving)
- ☐ Work Station
- ☐ High Technology
- ☐ Monitor Angle Adjustable
- ☐ Anti-Humid
- ☐ Anti-Static
- ☐ Moisture-Proof
- ☐ Ergonomics Design



COMO ENTERPRISES

11956 Woodridge Crescent
Delta, B.C. Canada V4E 3H5
Tel: (604) 594-6043, 594-6980
Fax: (604) 594-6051

E-Mail: como@webhaven.com
<http://www.webhaven.com/como>

CRX-2001 **\$95**
SuperCRX-2001 **\$125**

(additional sales tax and shipping and handling fee may apply)



CP! **Calendar** OF **Events**

April 8

NETCON CARAVAN '97.
Vancouver Trade and Convention Centre, 999 Canada Place. For more information, call (416) 497-9562 or 1-800-387-5012, or visit <http://www.netcom.plesman.com/>

April 20

COMPUCHANGE COMPUTER SHOW. Firefighters' Club, 6515 Bonsor Ave., Burnaby, BC. For more information, call (604) 438-1094 or (604) 438-6114. On the day of the show, call (604) 816-7731.

April 29

INDEPENDENT COMPUTER CONSULTANTS ASSOCIATION OF BRITISH COLUMBIA DINNER MEETING. Call (604) 734-2747 for more information or reservations, or browse <http://www.icca-bc.org/icca/events.htm> for details. Non-members welcome.

E-mail your event listing to calendar@tcpon.com or fax it to (604) 608-2686. Please include location, contact information, time, and date for our readers. For inclusion in the May issue, calendar information must be received by April 14. ♦



Nicer Technology Inc.

Tel (604) 303-5650 Fax (604) 303-5660
Unit 130 - 3771 Jacombs Rd., Richmond V6V 2M5

Excellence in Computing

We not only sell you the equipment, but also provide the solution!

UPGRADES, SERVICES & REPAIRS

Personal Workstation

- Intel Pentium P133 w/Ball-bearing Cooling System
- Intel Triton II Chipset MB w/256KB Pipeline Cache
- * 16MB EDO 60ns RAM
- * PCI 64 Bit Video Accelerator w/2MB DRAM
- * 1.28GB EIDE HD/1.44MB Floppy
- * 8X Speed Eide CD-ROM

Special \$999

BRAND NAME NOTEBOOK SPECIAL
Dare to compare with IBM and Toshiba

ACER A-OPEN P150 Personal Workstation

Internet ready



Acer
Authorized Dealer

- * 150 MHz Pentium Processor
- * Novell Certified Mid-tower Case
- * 512K Pipeline Burst Cache
- * 16MB EDO RAM (SDRAM Optional)
- * New 2.1 GB ATA-3 Hard Drive (<9.5)
- * Diamond Stealth3D w/2MB EDO RAM.
- PC Magazine Editor's Choice
- * 8X EIDE CD-ROM Drive
- * 16 bit Enhanced Audio w/3D Effect
- * 33.6K Int. Voice Modem w/SVD
- * 2-month Free Internet Access
- * MS Window 95 OSR2 Full Version
- * Windows 95 Enhanced Keyboard
- * Logitech Combo Mouseman

monitor extra

Special \$1668

Lease for \$59/month

ACER A-OPEN KP166 Multimedia Workstation

MMX ready

TX Series

PC 97

- * 166MHz Intel Pentium MMX Processor
- * Novell certified Mid-tower Case
- * 512K Pipeline Burst Cache
- * 32MB EDO RAM (SDRAM Optional)
- * New 2.1GB ATA-3 Hard Drive (<9.5)
- * ATI 3D Xpression w/2MB SDRAM
- PC2TV, Full Screen MPEG
- * 12X EIDE CD-ROM Drive
- * Sound Blaster 32 w/3d & Wave Effect
- * Altec Lansing Satellite Speakers
- * 33.6K Int. Voice Modem w/SVD
- * MS Windows 95 OSR2 Full Version
- * MS Home CD Bundle: Encarta 97, MS Works & Money, MS Golf & Exploring Solar System
- * Windows 95 Enhanced Keyboard
- * MS Ergonomic Mouse

Monitor extra

Special \$2308

Lease for \$82/month

Sceptre S3900S Multimedia Series

- * Pentium 100MHz TCP CPU 16MB EDO RAM
- * 1.0 GB Removable Hard Drive
- * 11.3" DSTN 800 x 600 SVGA/128 Bit Video
- * 360° Infra Red Port/ Removable Floppy Modem
- * Touch Pad/NiMH Battery
- * AC/DC Adapter/Carrying Case
- * Optional P-133 MHz & P-150 MHz
- * Optional 6X CD ROM Module/Lithium

\$2098

Lease for \$79/month

Also Available:

\$4000 TFT/16/16MB RAM/P100/6XCDROM

\$3599

Lease for \$125/month

CREATIVE

EPSON

WESTERN DIGITAL

HEWLETT PACKARD

Designed for

Microsoft

yes

SCEPTRE

Seagate

FUJITSU

NEC

Quantum TOSHIBA DIAMOND Canon All price is subject to change without notice

Microsoft Windows 95

yes

Microsoft Windows 95

yes

Microsoft Windows 95

yes

Microsoft Windows 95

All lease rates are based on a 36-month business lease (O.A.C.). Final lease rates, payments and options may vary.

Thieves let their fingers do the WALKING

Street Buzz

Steve Bain

Lower mainland computer thieves have a new, low-tech tool to scout for potential victims: the telephone.

Recent lower mainland crime reports from theft victims indicate they participated in a bogus telephone survey just prior to being relieved of all their computer equipment. The scam involves the thieves placing telephone calls to the victim's home or office and offering free software in exchange for completing a survey relating to personal income, occupation, personal computer equipment, and work habits. The fraudulent surveyor then asks for the victim's address and a convenient time to have a technician drop by to install the free software. Victims responses inadvertently reveal ideal times for the thieves to plan their robbery and exactly what they can expect to steal.

Victims of this slick computer-theft ring say the survey callers, who claim to be working on behalf of a well-known software company, sound professional and genuine. Anyone receiving this type of call is well

advised to decline the survey. Local police say the most effective method for recovering stolen computer equipment is to document all make, model, and serial-number information in case of theft. Anyone who feels at risk is advised to decline participating in telephone surveys of any kind.

EA braces for mega growth

If video gaming is your forte, this might pique your interest. Sometime this summer, the Burnaby-based division of Electronic Arts Canada will begin construction a new 170,000 square foot facility to be new home to their 350 current staff. The new offices will also have room for an additional 200 employees, many of whom will be recruited as the company continues its staggering growth rate. Tentative completion of construction is slated for the fall of next year.

In recent years, Electronic Arts has experienced record sales of its sports-related computer games, aimed squarely at the Sony Playstation gaming hardware and eventually at sophisticated 32-bit dedicated and CD-ROM drive-equipped personal-computer systems. Last year, the company saw revenues of more than \$480 million. For more information, see their Web site at <http://www.ea.com/> or phone (604) 451-3600.

DNA to release two new CDs

Award-winning Vancouver CD-ROM title-creator DNA Multimedia has released two

new titles this month. *Up to the Himalayas* and *Starsites* are the latest of the three-year-old company's interactive productions.

Starsites looks at the myth and science of five of the world's ancient monuments: Copan, Jantar Mantar, New Grange, The Forbidden City, and Giza. *Up to the Himalayas* involves navigating through three-dimensional landscapes and meeting people from cultures including Mustang, Nepal, Sikkim, and Darjeeling.

DNA's locally developed titles concentrate heavily on audience participation through interactivity. Their previous works include *The Silk Road*, *Klondike Gold*, and *Everything in Stages*. The company has won industry awards in the United States and Europe in competitions judged by Adobe, Macromedia, and International Digital Media. They are the North American arm of Japan-based DATT International, with products localized in Vancouver by partner firm FACT International for Korean, Chinese, French, and German markets. For more information, visit their Web site at <http://www.dna.bc.ca/>

Windows 95 upgraders, beware

As popularity of Microsoft's Windows 95 operating system increases, more businesses are discovering older hardware inoperable with the new platform. Upgraders are subsequently getting pinched by certain local computer vendors who see it as an opportunity to

levy potentially unnecessary service calls. Some would even consider the practice shady.

Here's how it goes. Windows 95 upgraders, surprised to discover that an older scanner or printer won't operate under the new platform, are directed by the manufacturer to contact their local vendor for service. Most manufacturers offer free upgrades for their hardware in the form of software drivers and/or upgraded computer-chip replacement. But vendors often keep this information to themselves and instead eagerly send service representatives out to perform the upgrade.

As a result, customers without prior service agreements can be billed for minimum labour charges often as high as \$150 per hour—including driving time to the client site. Upgrades are usually estimated at a two-hour minimum.

Hardware upgrades involving processor chip swaps are no more complex than installing RAM chips, and if you're familiar with the procedure you likely already know it's not rocket science. In these cases, vendors conveniently fail to mention that experienced do-it-yourselfers can save several hundreds of dollars in service charges.

Steve Bain is a high-technology writer in Vancouver, Canada. Send news, product tips, or comments to Steve@helix.net ♦

The persistence of DOS

Softwary

Alan Zisman

If you believe the hype, Windows 95 users can forget about DOS. Like a lot of advertising hype, it's absolutely true—part of the time.

Windows 95 does a good job of insulating its users from 1980s-era DOS limitations like the 640 KB memory dead-end and work-around memory-management schemes. Or from having to fiddle with the CONFIG.SYS and AUTOEXEC.BAT startup files. A lot of the time, Win95 actually works as advertised, allowing users to simply start up a DOS program, and have it run (something that was possible much less often with Windows 3.1).

Un-DOS?

While DOS may be buried, however, it's not quite dead yet. Despite Microsoft's efforts to convince us that Windows 95 is the present and future of software development, many game developers remain unconvinced. They've grown accustomed to the power they had, under DOS, to directly access the

computer's hardware, squeezing out the best possible performance for their games.

While many popular games are still being written for DOS, most are running properly in a Windows 95 DOS session. That's nice for users—it means that these games can take advantage of Win95's CD-ROM, sound, video, and mouse drivers. In those cases, users don't have to mess with the DOS dirty work.

Many users want to keep playing their old DOS games on their new computers or under their upgraded operating system, though. Or they just bought a new copy of a classic game, perhaps rereleased at a bargain price. These golden oldies often won't be so happy sharing the computer with Windows 95.

Don't give up

All is not lost, however. Win95 allows users considerable flexibility in setting up DOS sessions—far more than Windows 3.1 ever did (yes, OS/2 fans, not as much as that infinitely flexible operating system permits).

Here are a few tricks that should let you run almost every DOS program under Win95 without having to resort to clumsy workarounds like customized boot floppies:

- Increase the amount of RAM in your default DOS sessions

Win95 lets you run a computer without needing the DOS startup files, CONFIG.SYS and AUTOEXEC.BAT. In doing so, however, it doesn't optimize your computer's DOS sessions. Find out how much free DOS memory you have by starting up an MS-DOS window, and typing MEM (remember to press ENTER). If you have less than 600 KB or so free, some DOS games will refuse to run.

You can increase the amount of free conventional (DOS) memory with a little fussing around with your CONFIG.SYS file. Start up Notepad (from the Start Menu's Programs/Accessories submenu), and open C:\CONFIG.SYS—if you don't find one, make a new file. Make sure it has the following three lines:

```
Device=C:\Windows\Himem.sys
Device=C:\Windows\Emm386.exe noems
DOS=high,umb
```

Save the file, shutdown, and restart. Open a DOS session, type MEM again, and see how much free memory you've gained. It may still not be enough. In that case, you will have to check deeper into the workings of your DOS startup files.

- Are you loading unneeded DOS drivers in CONFIG.SYS and AUTOEXEC.BAT? If you've upgraded from an older DOS/Windows setup, you may be loading unneeded DOS drivers, particularly for your CD-ROM, sound card, and mouse. Open your CONFIG.SYS file again. Check it for addition-

al lines starting "Device=" or "Devicehigh=". These are loading device drivers (software enabling your system to work with hardware add-ons). In most cases, these are not needed, as Windows 95 provides drivers for most hardware devices that don't use up your precious DOS memory.

If you find such statements (besides the Himem.sys and Emm386.exe statements previously listed), don't delete the lines. Instead, "comment them out" by typing "REM" and a space at the front of each line. Save the file.

Similarly, open C:\AUTOEXEC.BAT in Notepad. Check for lines loading what seem to be Mouse or other hardware drivers (you can ignore any lines starting with the word "Set"). Comment them out the same way. Save, and restart your system. Check and see if your hardware—CD-ROM, sound card, mouse, and so forth—are working properly. If so, you don't need those DOS drivers. But don't delete those lines just yet—you're going to need them!

Open a DOS session, and type MEM one more time. At this point, you should have at least 605 KB free conventional memory, which should be enough for most DOS programs.

This is a good start, but you may not be done yet. In next month's column, we'll look at what to do if your programs insist on EMS (expanded memory) or need to run in Win95's special MS-DOS Mode.

Alan Zisman is an associate editor. Comments or information related to software issues should be directed to alan_zisman@mindlink.bc.ca ♦

Feds introduce cyber-friendly budget

• • By CHRISTOPHER GULY • •

Having reduced his 1996-1997 deficit target of \$24.3 billion by \$5.3 billion, Finance Minister Paul Martin turned his attention to high-

tech assistance amid more than \$1-billion worth of new spending by the federal Liberal government. Chief among the new initiatives announced in the February 18 budget is the creation of the Canada Foundation for Innovation. Ottawa will pump \$800 million into the new

independent, non-profit organization, which is expected to be operational this fall. With interest accrued over the next five years, the foundation will be able to fund about \$180-million annually to research infrastructure projects.

Former University of Toronto president Dr.

John Evans, a research physician, was named head of the foundation February 19. The group—to be composed of 15 representatives from both research and business—will support initiatives from universities, hospitals, and privately run research institutes, and their capital costs, including acquiring state-of-the-art equipment, establishing computer networks and communications linkages, and creating research databases and information-processing capabilities.

Salaries and regular maintenance operating costs are not eligible for assistance, and pro-

"Fundamentally, they're coming to recognize the tremendous contribution information technology and the strategic application of it makes to the Canadian economy."

jects will only receive no more than half the costs. A research facility would have to find funding from the private sector.

Norine Heselton, vice president of policy with the Information Technology Association of Canada, says Martin's emphasis on technology is prudent. "I'm encouraged that the bricks and mortar of the knowledge-based society are still on the government screen," she says.

Excellence to continue

In addition to creating the foundation, the Finance minister also made the seven-year-old Networks of Centres of Excellence a permanent program. The 14 centres, which specialize in such areas as robotics and intelligence systems, microelectronics networks, and telelearning and telecommunications, will be maintained at the annual 1990 funding level of \$47.5-million.

The National Research Council's Industrial Research Assistance Program's \$96.5-million annual budget has also been preserved. IRAP promotes technology to small businesses.

Although the president of the Canadian Federation of Labour says the \$425 million Ottawa recently set aside for infrastructure job creation will have an immediate impact on Canada's 9.7 per cent national unemployment rate, James McCambly says Martin was right to target technology in his budget.

"There are all kinds of demands for jobs in software, hardware, and computers," he says. "Canada has to be at the forefront of technology. Otherwise, we're not going to be able to have high-paying jobs, which is part of our goal."

The Martin budget also allocated a further \$30 million to the Community Access Program, which was created in the fall of 1994. The new goal is to connect about 5,000 rural and remote communities, ranging in population from 400 to 50,000, to the Internet.

In focusing on technology in what will likely be its final budget before the next election, Heselton says the federal government is showing that it's investing in the future.

"Fundamentally, they're coming to recognize the tremendous contribution information technology and the strategic application of it makes to the Canadian economy."

Information on the 1997 federal budget can be found on the Finance department's Web site at <http://www.fin.gc.ca/>. ♦

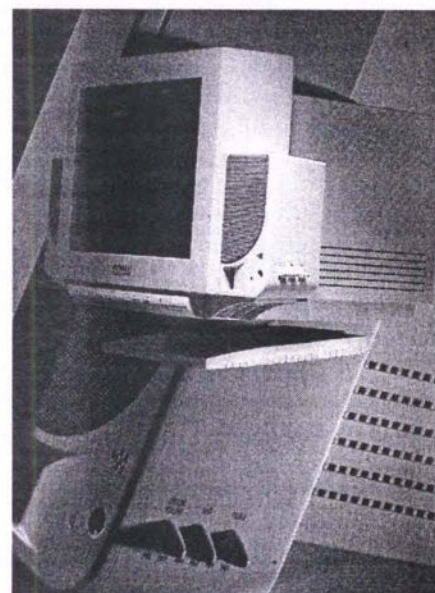
AretêComputers

Est. 1988 Helping people & computers work together



This Months Special

Aretê 166+
6x86 P166+ MHz Processor
16 MB EDO RAM
256K Pipelined Cache
Fujitsu 1.44MB 3.5" FD
Fujitsu 2.1 GB HD (10m/s)
12xCD-ROM
Ess1868 16 bit PNP Sound Card
Matrox Mystique 3D w/2MB SGRAM
US Robotics 33.6 Fax/Modem/Voice
104 Win 95 Keyboard
Logitech 3 Button Mouse
Windows 95 CD SR2
Works for Windows 95
17" Hyundai DeluxScan 17MB Color Monitor with Speakers
Mini Tower Case
Warranty 2 Years Parts & Labour
\$2,249



Hyundai DeluxScan 17MB
Only \$549
While Quantities Last

IBM PC 340

Highlights



- ⊃ Pentium 166MHz
- ⊃ 256K L2 Cache
- ⊃ 16MB EDO memory
- ⊃ PCI local bus video 1MB controller
- ⊃ 2.5GB hard drive
- ⊃ 8xCD Rom
- ⊃ 16 bit PNP Sound Card
- ⊃ US Robotics 33.6 Fax/Modem/Voice
- ⊃ 15" Hyundai Color Monitor
- ⊃ Lotus SmartSuite
- ⊃ 3 Years Warranty Parts & Labour

P166 \$ 2,749

IBM PC 350

Highlights



- ⊃ Pentium 166MHz MMX or 200MHz MMX
- ⊃ 256K L2 Cache
- ⊃ 16MB or 32MB EDO memory
- ⊃ PCI local bus video 1MB controller
- ⊃ 2.5GB hard drive
- ⊃ 12xCD Rom
- ⊃ 16 bit PNP Sound Card
- ⊃ US Robotics 33.6 Fax/Modem/Voice
- ⊃ 15" Hyundai Color Monitor

P166 MMX, 16MB \$ 3,499
P200 MMX, 32MB \$ 3,899

IBM ThinkPad 365XD

100MHz Pentium® Processor



Only
\$ 2,999

- ⊃ 10.4" DSTN SVGA Display
- ⊃ 810MB Hard Drive
- ⊃ 8MB EDO Ram
- ⊃ 4xCD-ROM
- ⊃ 16-bit Sound Card
- ⊃ Windows 95
- ⊃ Lotus SmartSuite 96
- ⊃ PCI System Bus

LEXMARK Optra R+



The Best Laser Printer
"...this is the best printer on the market".

NEW Mitsubishi 67TXV



17" Diamontron CRT
0.25 Aperture Grille Pitch
1280x1024@64 Hz
135 Mhz Video
Autoscan range of:
30 - 86 kHz Hor.,
50 - 130 kHz Vert.

\$1,099

Call for Current Pricing, Prices Subject to Change Without Notice

AretêComputers

2445 Cambie St., Vancouver, B.C. Tel: 873-2440 Fax: 873-9167

Mac clones proliferating

• • By GREG SALMAN • •

It's been a year since Apple took the progressive, and some said very risky, step of licensing its operating system (MacOS)—the software interface that makes a Mac unique—and hardware architecture to several third-party companies, so that they could produce Mac "clones." In this short year, several companies have proven the viability of the MacOS. In fact, despite early nay-sayers and predictions that Apple would go out of business because it was giving up its monopoly, this is probably the best thing to have happened to the Mac since its advent.

Recently, more and more companies are joining the ranks of Mac-clone manufacturers, which could signal a comeback for the Mac. The trick is that the Mac-clone market is almost as confusing as the IBM PC-clone market. Just as in the PC world, different companies offer different configurations of hardware at different prices, but you can be sure of one thing: all of these machines will run MacOS.

Here's a brief who's who of the Mac clone market:

PowerComputing

Contact: 1-800-405-7693

The first of the licensees, Texas-based Power Computing has been very aggressive in marketing its machines, and by default the MacOS. In many ways, Power Computing has tried to improve on Apple's designs, and the company can currently boast the fastest CPU around—PC or Mac—at a whopping 300 MHz.

At one point, Power Computer's clones were the only choice for cheaper, home-oriented machines, and although their prices are still competitive, there are now companies that are able to provide even better Mac bang for your buck. Power Computing is still the winner when it comes to powerhouse speed systems, though.

Motorola

Contact: 1-800-759-1107

Motorola is the manufacturer of the CPU chips that have been the heart of the Apples since Macintosh computers were first made. Their new line of Mac clones is called StarMax, featuring top-of-the-line, competitively priced Macs that all include Motorola's other most favored product: modems. These systems are supposed to be even better than the ones Apple designs, but that's just a rumour.

UMAX

Contact: (510) 226-6886

UMAX has long been a manufacturer of Apple peripherals, such as scanners and video cards. UMAX now offers several Macintosh clone models in their SuperMac line. They took over the license from Radius computers, who weren't able to find a niche for their higher-end product. It remains to be seen how UMAX's mid-range clones are accepted.

APS

Contact: 1-800-235-2753

One of the better buys you can get currently is from APS, a Missouri-based manufacturer of hard drives and other peripherals. Their M*Power series of computers has more features for the lowest price out there today. Besides giving you great deals, APS will also allow you to customize your Mac clone from the factory. And the technology that goes into these comes from Motorola, unlike some of the other clones made by sub-contractor companies.

DayStar Digital

Contact: (770) 967-2077

DayStar was the first Mac clone to offer multiple-processor technology for the Mac, even before Apple did. The Genesis MP uses to PowerPC 604 chips to provide workstation-like results in a Mac—perfect for video editing and graphics. These machines are also expandable, unlike Apple's two-chip 9500MP models. For the moment, DayStar only markets these higher-end systems.

Vertegri Research

Contact: (604) 688-6792

The only Canadian entry in the clone market is Vertegri Research. The imediaEngine line of clones is also distinct for another reason: it has the first portables on the Mac-clone market, featuring 240 MHz and 200 MHz 604e PPC chips, and no batteries or PC-card slots. The idea is to make a heavy-duty portable for people who need all that power for presentation, but aren't likely to sit around writing their novels in cafes. The prices are also pretty hefty; starting about \$5,500 for an entry-level 200 MHz system and going all the way to over \$7,000 for a top-of-the-line model. Vertegri also plans a line of high-end desktop models.

PowerTools

Contact: 1-800-891-4307

The latest entry into the Mac-clone market, PowerTools is based in Texas like Power Computing, but there's no relation between the two companies. Aggressive pricing and an attempt to cater to the graphics industry seems to be where this company plans to compete.

Who's next?

There's more to come. Several other companies are currently working on bringing more Mac clones to the market. For example, Daewoo, a Korean computer giant, has licensed the MacOS and hopes to have systems for sale in North America before the end of 1997.

In all of this, let's not forget one last manufacturer, one not easy to overlook, especially since they recently dropped the prices on their entire line of products: Apple. That's right, all this competition has forced Apple to get a little leaner, and a little meaner, to stay in the race to sell hardware that runs their OS—which is a good thing for all of us. ♦



SHOPCO

FOOD SERVICES

(EST. 1990)

VANCOUVER'S FIRST ONLINE GROCERY STORE

#104-17688 66th Avenue, Surrey, B.C. V3X 7X1

OVER 10,000 HAPPY CUSTOMERS AND GROWING...

BUY DIRECT AND SAVE

BRAND NAME GROCERIES

DELIVERED TO YOUR HOME

SAVE TIME - SAVE MONEY

HIGH QUALITY MEAT & POULTRY

NO MORE LONG LINE UPS!

SATISFACTION GUARANTEED



THE ULTIMATE SHOPPING CONVENIENCE!!

Call 576-4000

Order by Phone, Fax, or on the Internet At:

www.shopco.ca

\$100.00 Minimum Order

Ranked 3rd fastest growing company in British Columbia by *Business In Vancouver Magazine*

MDI Internet

\$18.88 Monthly

- T1 Connection
- \$18.88 Unlimited/one month
- E-mail to pager service (optional)
- Roaming Internet Service (optional)
- Free set-up software and manual

We also sell Cantel pagers!

business customers are welcome!



MDI (Internet Inc.)

Your Sweet Home <http://www.mdi.ca>

700 - 1080 Howe Street, Vancouver, Canada V6Z 2T1

Tel: (604) 602-9168 Fax: (604) 602-9108

THE BEST

JOIN NOW

Happy 20th to BC's Basic'ly BBS

• • By ALAN ZISMAN • •

Basic'ly BBS, a free service run by Bob and Sharon Satti, celebrated 20 years of continuous operation on January 10.

Bob, a programmer specializing in networking software, became interested in what was then called Remote or Host Systems in the mid-1970s. He found another hobbyist in Toronto with

similar interests, and after a lot of experimentation, they reached a milestone of sorts. According to Bob, "One day he typed an 'M' and I received an 'H,' and we each celebrated this suc-

cess by going out for dinner."

After making the process a little more reliable, he went online on January 10, 1977. "The phone company couldn't understand why I would want a second line in my house!"

Over 195,000 phone calls later, Basic'ly consists of a network of 24 IBM-compatibles (a mix of 286, 386, and 486 computers), mostly in a spare bedroom in the Satti's home in Surrey (outside Vancouver BC), with 1,730 active users. Over 9 gigabytes of files are available across the collection of hard drives, along with a wide range of message bases. The system doesn't support online gaming, or libraries of graphics (often a euphemism for pornography); the Sattis say that these are widely available elsewhere, and prefer to keep their phone lines available for more serious users.

The Sattis have provided Basic'ly as a free service despite the ongoing costs of maintaining seven phone lines and two dozen computers—they estimate that it adds \$50-60 per month to their hydro bills (the computer room requires air conditioning year-round), and about \$300 to each phone bill. They see themselves as providing a valuable community service, citing, among other benefits, message groups focusing on alcoholism and abuse survivors.

The gift of time

Keeping the service up and running takes more than money; on average, it takes anywhere from two to four hours a day to keep Basic'ly going.




Their advice to would-be system operators ("sysops")—equally valid to others, I believe—is to place a computer in the living room, where it can become part of the family life, rather than an isolated hobby. While the bulk of Basic'ly is housed on 20 computers upstairs, the Sattis have another 4 clustered around the family TV, letting them control the BBS or work on other computer-oriented tasks. As a result, Sharon vehemently denies being "a computer widow."

Basic'ly is connected to other BBSs via FidoNet, a grouping of over 30,000 nodes worldwide. This allows users to exchange e-mail and topic-oriented messages without cost (although it is slower than through equivalent Internet services). For several years, Bob has been Fido Zone 1 (Canada and USA) coordinator, having whatever passes for power in Fido's anarchic structure.

Keeping on

In the past few years, faced with the explosive growth of the Internet, many have suggested that traditional BBSs are

continued on page 33

 <p>Golden Computer Systems</p>	 <p>TC COMPUTERS</p>	 <p>TRI CITY COMPUTERS</p>
<p>10269-128th St, Surrey. Tel/Fax: 581 4698/8382 3610B Westwood St, Coquitlam Tel/Fax: 552 3199</p>		

Great Prices, Great Choices, Great People

Pentium Systems

Intel Pentium 75/100/120 Mhz
Intel Chipset MBw/Built-in EIDE
CTR & Fast IO, 256K PB Cache
8MB RAM (Exp. 128MB)
1.2GB EIDE Hard Disk
1.44 MB Floppy Drive
1 MB PCI Video Card (Exp. 2MB)
14" NI, LR SVGA Monitor
Mini Tower Case w/200W PS
104 Win95 Enhanced Keyboard
3 Button Mouse
\$1,109/\$1,179/\$1,249

Pentium Systems Plus

Intel Pentium 133/150/166/200 Mhz
Intel Chipset MBw/Built-in EIDE
CTR & Fast IO, 256K PB Cache
16MB EDO RAM (Exp. 128MB)
1.6GB EIDE Hard Disk
1.44 MB Floppy Drive
1 MB PCI Video Card (Exp. 2MB)
15" NI, LR SVGA Monitor
Mini Tower Case w/230W PS
104 Win95 Enhanced Keyboard
3 Button Mouse
\$1,529/\$1,642/\$1,809/\$2029

6X86 Systems

Cyrix/IBM 6X86 P120+/150+/166+
Intel Chipset MBw/Built-in EIDE
CTR & Fast IO, 256K PB Cache
8MB EDO RAM (Exp. 128MB)
1.2GB EIDE Hard Disk
1.44 MB Floppy Drive
1 MB PCI Video Card (Exp. 2MB)
14" NI, LR SVGA Monitor
Mini Tower Case w/200W PS
104 Win95 Enhanced Keyboard
3 Button Mouse
\$998/\$1,078/\$1,178

Great Prices

1.44 Floppy Drive	\$34.00
100MB Zip Drive	\$225.00
Keyboard	\$17.00
Mouse 3 Button	\$9.99
Sound Card	\$37.00
PCI Video Card	\$49.00
12X CD ROM	\$155.00
8X CD ROM	\$135.00
4X CD ROM	\$85.00
4X4 CD ROM	\$115.00
Assorted CD ROM from	\$0.49up
CYber Pak 10 CD win95	\$25.00

!Over 100 Used Systems !

486 DX-33 MHz CPU

210 MB Hard Disk
1.44 MB Floppy Drive
1.2MB Floppy Drive
4MB RAM
VGA Video Card

ONLY \$459.99

Plus Dozens of other 486 Systems starting at \$299.00

!Over 100 Used Systems!

Very Fast 486 DX2-80 MHz

710 MB Hard Disk
1.44 MB Floppy Drive
8MB RAM
VGA Video Card
2X CD ROM with Multimedia

ONLY \$629.00

Plus Dozens of other 486 Systems starting at \$299.00

Very Special Prices

14" AOC N.I. SVGA .28 dpi	\$229.99
15" AOC N.I. SVGA .28 dpi	\$339.99
17" NEC XV+	\$980.99

15" KOMODO N.I. SVGA .28dpi
KOMODO King of Monitor (Special) **\$329.99**

We Have Everyday in-store Special!
Hurry, Limited Quantity!!

Refurbished Items

Used 1.44 MB Floppy	\$20.00
15" NEC 3FGX	\$398.00
Ext. NEC SCSI CD-ROM	\$145.00
Diamond Stealth 1MB VRAM	\$65.00
Mono VGA Monitors	\$35.00
Teac 4X CD ROM	\$50.00

Hurry, Limited Quantity!!

PHOTOCOPIER

Reconditioned Photocopiers from \$499.00

WE ALSO SERVICE LASER PRINTERS, PHOTOCOPIERS & FAX MACHINES



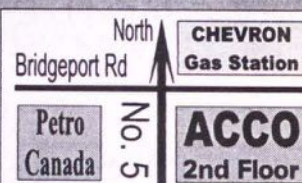
Layaway with Price Protection
Best Rate Leasing In Town

201-12020 Bridgeport Rd
Richmond, BC V6V 1J3

Tel: (604) 273-3316

Fax: (604) 270-0366

Email: acco@planeteer.com



Business Hour

Mon-Sat: 10-6 pm
Sun: 11-5:30 pm

April 1st Special Warranty Express Service: Same Day Service at No Extra Charge

Seagate 1.7GB Medalist \$259 Limited Qty **S3 Trio64 V+ 1M w/ MPEG \$49**

First Time Buyer Special

Pentium® 120 \$928

256K Pipeline Cache
8MB EDO RAM
1.3GB EIDE Hard Drive
Panasonic 1.44 Floppy
64bit SVGA 1M
104 Key Win95 Keyboard
Mini Tower Case
Mitsumi Mouse & Pad

Lease
\$31/mth*



14" .28 NI LR SVGA Monitor

Pentium® 133/150 \$968/1018
166/200 \$1198/1468
6x86 P150+/166+ \$938/968

Notebook

TOSHIBA Satellite/ Pro Multimedia
200CDS.....\$2238
P100/8M/810M/6xCD/Sound/11.3"DSTN
420CDT.....\$3448
P100/16M/1.26G/6xCD/Sound/11.3"TFT
430CDS.....\$2768
P120/16M/1.26G/10xCD/Sound/11.3"DSTN
430CDT.....\$3698
P120/16M/1.26G/6xCD/Sound/11.3"TFT
SCEPTRE Soundx Multimedia
S3900 P100/8M/1G/11.3"DS.....\$1998
S3900 P133/16M/1G/11.3"DS.....\$2338
S4000 P133/16M/1G/6x/11.3"TFT.....\$4068

Power Station

6x86 P150+ \$1418

Triton III- MMX PCI MB
256K Pipeline Burst Cache
16MB EDO RAM
1.6GB EIDE Hard Drive
Panasonic 1.44 Floppy
S3 Trio64 V+ MPEG Video
Mitsumi 8X CDROM
80W Multimedia Speakers
104 Key Win95 Keyboard
16 bit PnP Sound Card
33.6 Voice Fax/Modem
15" Mid Tower Case w/230W
Mitsumi Mouse & Pad
15" SVGA .28 1280x1024 Monitor

\$47/mth*



MMX 166/200 \$1808/2138

Pentium® 120/133 \$1418/1438
150/166 \$1498/1658
6x86 P166+/200+ \$1468/1598
PRO P6 150/180 \$1568/2028
PRO P6 200 \$2198

Ultra Station

6x86 P150+ \$1868

Triton III- MMX PCI MB
512K Pipeline Cache
(Intel 440FX Natoma P6/256K)
32MB EDO RAM
2.1GB Quantum Fireball
Panasonic 1.44 Floppy
Diamond Stealth 3D
Full Screen 2M EDO MPEG Video
Panasonic 12X CDROM
160W Multimedia Speakers
104 Key Win95 Keyboard
Sound Blaster 32 PnP Sound
33.6 Voice Fax/Modem
15" Mid Tower Case w/230W
Mitsumi Mouse & Pad
15" SVGA .28 1280x1024 Monitor

\$61/mth*



Best Buy

MMX 166/200 \$2248/2488

Pentium® 133/150 \$1928/1968
166/200 \$2108/2368
6x86 P166+/200+ \$1898/2068
PRO P6 150/180 \$2138/2488
PRO P6 200 \$2738

Ultra Plus

6x86 P150+ \$2368

ASUS P55-T2P4 HX MMX MB
512K Pipeline Burst Cache
(Intel 440FX Notoma P6/256K)
3.2GB Quantum Fireball
32MB EDO RAM
Panasonic 1.44 Floppy
ATI 3D Xpression Plus
2M SDRAM Video
Toshiba 12X CDROM
160W Multimedia Speakers
104 Key Win95 Keyboard
Sound Blaster AWE64 Sound
USR 33.6 Voice Fax/Modem
19" Tower Case w/230W
Mitsumi Mouse & Pad
MAG DX15T (SONY Trinitron)
15" .25 OSD PnP 1280x1024 Monitor
MMX 166/200 \$2868/3198
Pentium® 133/150 \$2498/2568
166/200 \$2698/2968
6x86 P166+/200+ \$2398/2588
PRO P6 150/180 \$2638/3068
PRO P6 200 \$3268

\$77/mth*

Microsoft Windows 95 Release 2 Full Version only \$129 !

Top 10 Mainboards

Pentium Triton III MMX MB.....\$135
Built-in Fast I/O, 256K PLC
72/168 DIMM,PS2,SDRAM, USB
586/486 PCI/VLB/ISA MB.....\$89
4EIDE, 1P/2x16550, 4x72pin
Abit SM5 VX 512K Softmenu.....\$165
Acer AP5TX TX 512K.....\$199
ASUS P55 T2P4 HX 512K.....\$189
FIC P2005 VIA 512K (75Mhz!).....\$145
FIC P2006 VX 512K.....\$145
FIC P2200 HX 512K.....\$159
Gigabyte ATX/VX 512K.....\$165
Shuttle HOT 553 HX 512K.....\$165
Tyan S1470 VX 256K.....\$189
Tyan Tomcat III Dual P5/512K.....\$339

AMD 5x86-133.....\$55
AMD K5-75/133.....\$59/\$139
Pentium 100/120.....\$139/149
Pentium 133/150.....\$189/219
Pentium 166/200.....\$379/639
MMX P166/200.....\$509/759

Cyrix 6x86 P150+/166+.....\$145/189
Cyrix 6x86 P200+.....\$299

4M 30pin.....\$39
8M/EDO 72pin (60ns).....\$55
16M/EDO 72pin (60ns).....\$119

Misc.

Mitsumi 104 Keyboard.....\$20
Fujitsu 8725/4725 KB.....\$29/59
Mitsumi Bus Mouse.....\$25
13" Tower w/ PS.....\$59
15"/19" Tower.....\$69/85

Super IDE I/O Card.....\$30

SCSI Controller

ASUS SC200 SCSI PCI.....\$125
Diamond Fireport 40UW.....\$239
Adaptec 2940 Ultra SCSI.....\$259
Adaptec 2940 Ultra Wide.....\$325
Ethernet ISA/PCI.....\$35/\$39
8 Port 10Bast-T Hub.....\$109

(OEM only sold with system)
MS-Encarta 97 CD Packs.....\$89
(Encarta, Works, Money, Golf, Exp.)
MS-Office Pro95.....\$249
MS-Office Pro97.....\$359
NT 4.0 Wkstation Full.....\$289



Prices subject to
change w/o notice

*Lease Based On
36mth, 10% Buyout

Drives

1.28/1.7GB.....\$245/269
2.1/2.5GB.....\$309/329
WD 1.28/1.6GB.....\$259/279
Quantum 2.1/2.5GB.....\$305/349
WD 3.1/4.0GB.....\$389/479
Quantum 3.2/3.8GB FB.....\$399/439
Quantum 3.2GB FB SCSI.....\$498
IBM 2.1G UW SCSI.....\$575

Panasonic 1.44 Floppy.....\$30

HP Colorado T1000 Tape.....\$160
Ditto 2G Tape Drive.....\$195

IOmega Zip100 Int/Ext.....\$249

Fax Modems

Zoltrix 33.6 Fax.....\$95
Acer 33.6 Voice/Fax.....\$109
Supra 33.6 Voice/Fax.....\$119
USR 33.6 Fax.....\$149
USR 33.6 Voice/Fax.....\$165
USR 56K Ext. Voice.....\$275
Megahertz XJ3336T.....\$409
33.6 Modem + 10BaseT
Megahertz XJ3336C.....\$415
33.6 Modem + Combo



Video & Monitor

Cirrus Logic 64bit SVGA.....\$29
S3 Trio64 V+ MPEG 1M.....\$39
S3 3D Virge 2M EDO(ext 4M).....\$75
ATI Mach64 w/ MPEG.....\$75
ATI 3D Xpression 2M EDO.....\$98
Diamond Stealth 3D 2M EDO.....\$139
ATI 3D Plus 2M SDRAM.....\$169
ATI 3D Pro Turbo 4/8M.....\$255/365
Matrox Mystique 2/4M.....\$199/239
MGA Millennium 2/4M.....\$239/339
STB Velocity 4M EDO VRAM.....\$219

MAG DX15T 15" .25 OSD.....\$479
Sceptre 15"/17".....\$369/\$689
Optique V773 17" .26.....\$739
Optique V775 1600x1280.....\$849
Viewsonic 17" GS/PS.....\$799/959
MAG 700T 17" .25 Trinitron.....\$879
Sony 17" 200-SX Trinitron.....\$949
NEC 17XV+ Multisync.....\$1069

Printers

Epson 400C Color 720x720dpi.....\$325
HP DeskJet 690C Color.....\$389
Laser
Brother HL730 600dpi.....\$449
Canon LBP 460 600dpi.....\$349
Panasonic 1200dpi,6ppm.....\$499

Multimedia

Panasonic 8X CDROM.....\$129
Pioneer 12X CDROM.....\$139
Mitsumi 16X / Acer 18X.....\$188/198
Pioneer 12X Int. SCSI CDROM.....\$239
Plexor 12X Int. SCSI CDROM.....\$399

HP SureStore 6020i 6x2 CD-Writer.....\$629
TDK CDR 74min 650MB.....\$10

ES1868 16bit PnP 3D Full Duplex.....\$39
Sound Blaster 16 PnP.....\$69
Sound Blaster 32 PnP.....\$119
Sound Blaster AWE 32.....\$139
Sound Blaster AWE64 (Retail).....\$225
60/160W Multimedia Speaker.....\$25/\$59
Discovery 12x/Awe64/9 Titles Kit.....\$359

ACCO is the first to offer Warranty
Express Service In North America.
You have same day service when
you own any ACCO Systems at no
extra charge.

Coporate P.O. Welcome

3 year labor & 1 year parts warranty
Free Internet Setup & Access (1st Month)

TongueInCheek speaks to the future

• • By DAVID WILSON • •

VoiceCon Systems Inc., has announced TongueInCheek, a hardware/software solution designed to recognize, import, and translate human speech into text files. "TongueInCheek is designed for people who need to translate recorded and stored speech into text, but it goes further than the voice translators already on the market," says Dagny Taggart, a spokeswoman for VoiceCon.

Which witch is which?

Any linguist can tell you that spoken English is notorious for its ambiguity. But homonyms—words that have different meanings, yet sound the same—are apparently no problem for TongueInCheek. Taggart demonstrated by reading phrases such as "which witch is which?" and "Their waiter put their glasses there." In every case, TongueInCheek understood and translated the correct English word!

The TongueInCheek product consists of a specially modified, OEM version microcassette recorder licensed from Sony, a series of connection cables, and its CD-ROM-based voice-recognition software and accent algorithms. An external microphone is suggested to

minimize the mechanical noise of the recorder itself.

Taggart also demonstrated that the software does an impressive job in less-than-optimum conditions. She borrowed a cassette tape from one of the reporters who had been recording the event, placed the reporter's tape in the TongueInCheek recorder and launched *Microsoft Word* on a Power Mac (text flows directly into any standard application). Taggart then selected the "noisy" setting in the software and TongueInCheek started translating the text in tape into words on the screen. Almost every word translated accurately, with only occasional glitches due to loud ambient noise.

TongueInCheek requires at least a Pentium running at 133 MHz or better, Windows 95, 32 MB of RAM, and a SoundBlaster-compatible sound card. When the software is installed, it modifies the menu of the particular application program (such as a word processor), so using TongueInCheek is as simple as importing text from another application (see graphic).

Power Mac owners need at least 16 MB of RAM (32 MB recommended) and Apple's Open Transport installed. The sheer size of TongueInCheek (about 50

MB, if all dictionaries are loaded) necessitates a CD-ROM drive for initial loading.

Other uses for TongueInCheek

Predictably, Taggart rhapsodized about the potential uses of TongueInCheek. "Students won't have to worry about missing anything in class—and neither will reporters at a press conference," she smiled. TongueInCheek—used with Sony's optional lecture microphone available for about \$125 Canadian—can also help combat repetitive stress injury (RSI).

Injecting some fun into the briefing, Taggart also suggested TongueInCheek could be used to settle bar bets. "Ever wondered what the heck Tracy Chapman, Nirvana, or Seal are singing? TongueInCheek takes the sounds, applies complex algorithms, and gives you the answer," she claims.

At Can\$199 for the basic unit (and \$299 with all the accessories thrown in), it's doubtful that TongueInCheek will find much of a market settling bar bets. What is likely, however, is that this new product will capture the attention of many people—professionals and students alike.

VoiceCon can be reached at (403) 555-1212.

April fools! ♦

BrainWaves makes waves

• • By LUAS SONREHC • •

Orbit Systems Inc. has developed a new microchip it says can be implanted in the human brain, offering individuals 24-hour global access to the Internet that can be controlled and directed by human thought.

"Really, this is just an extension of what we have done for several years with pets," Orbit research director Emma Plant says. She explains that several companies, including Orbit, already market special microchips that are implanted into cats, dogs, and farm livestock in order to ensure their proper identification.

"We have recently developed new chip technology called BrainWaves that enables two-way communication," Plant explains. "Each microchip contains a microscopic modem and hard-drive, so the essential hardware is contained in a tiny fingernail-sized steel package that can be medically inserted in a non-sensitive area of the brain," Plant says. "We found that software functions can be mimicked by the human brain, using a combination of conscious and subconscious thought patterns."

Live testing was conducted on animals. Although animals aren't capable of human thought, certain brain enzymes are similar enough that the test subjects were able to "push certain buttons to make the hardware perform basic communications tasks," Plant says.

In early March, Orbit Systems, on the Web at <http://www.orbitchip.com/>, applied to Industry Canada and Health and Welfare Canada for permission to test the chip using willing human subjects. Federal government officials said they couldn't comment on Orbit's plans because they have yet to be formally presented.

April fools! ♦

LYNX Internet

<http://www.lynx.bc.ca>

Super
WebSite
www.superwebsite.com

• Proudly Support the
1st & most powerful
Internet HomePage
"www.superwebsite.com"

• \$20 Unlimited Access
• T1 Connection
• World Wide Web
• Web Development
• E-Mail
• Newsnet
• FTP

• Training courses
• Internet Concept
• HTML webpage design
• Pre-Occupational DTI
• Network Technologie
• LAN Administration

938 HOWE STREET VANCOUVER, V6Z 1N9 TEL:604-331-2511 Fax:604-331-2522 E-mail:info@lynx.bc.ca

Happy 20th to BC's Basic'ly BBS ...

continued from page 30

obsolete. The Sattis beg to differ. While they agree that some BBSs are shutting down, they point out that, in their experience, this has always been the case; like trendy restaurants, only a few survive for five years or more.

Basic'ly's user base dropped by about 10 per cent, perhaps a result of users switching to the Internet, but recently started rising again. Calls have remained steady at about 200 per day, the maximum the system can handle without expanding the number of telephone lines.

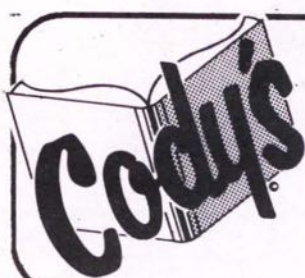
For many users, the Sattis suggest, a local BBS will remain a valuable resource, providing a simpler interface where information is easier to find. FidoNet message groups, because they are moderated, tend to offer a "higher signal-to-noise ratio" than their Internet counterparts, Usenet groups, where readers often must wade through hundreds of off-topic messages or flames to find the information they seek.

As well, large files can often be transferred from a local BBS much faster than over an often-tenuous Internet connection. Similarly, performance on a local chat group tends to be much higher than the equivalent Internet Relay Chat.

Finally, Bob Satti suggests, the cutting-edge on the Internet is demanding faster and faster connections and cutting-edge hardware; the new RealVideo, for example, needs a 200 MHz Pentium Pro to receive real-time video. Large numbers of users, perhaps the majority, will always be unable to make use of these technologies. For them, BBSs like Basic'ly can provide a home.

While the Sattis have given a lot to the online community, they feel like they've gotten as much back: "a strong comradery that we don't see in the Internet." They're looking forward to the next 20 years.

To dial into the Basic'ly BBS, call (604) 584-9811. ♦



The Place for Computer Books

Westwood Mall - 3000 Lougheed Hwy, PoCo 464-5515
Champlain Mall - 3200 E54 Ave., Vancouver 437-5553

電腦書籍專門店

"The bookseller with experience and knowledge"

GIVE SOMEONE A SECOND CHANCE.

Please give generously.



THE KIDNEY FOUNDATION OF CANADA

Education Expo 97

Discover the World of Learning ...

Special Guest:

Chinese Education Association For International Exchange

Parts of event proceeds will be donated to World Vision Canada

加拿大世界宣明會
WORLD VISION CANADA

date: April 26, 1997
10:00am - 8:00pm

April 27, 1997
10:00am - 7:00pm

place: Vancouver Trade & Convention Centre
999 Canada Place, Vancouver, B.C.

organiser: UAC-UP Education Expo Ltd.

tel: (604) 273-9682

fax: (604) 214-0178

co-organiser: Nobel International Consultant Ltd.

tel: (604) 808-0782

fax: (604) 438-0246

Web Address for Education Expo 97: www.nssd.com
Email address: EduExpo@nssd.com

Show Highlights:

- Education Institutes
- Business Schools
- Colleges & Training Centres
- Professional & Technical Programs
- Educational Tools, Equipment & Supplies
- Books & Magazines
- Computer Software, Hardware & Networking
- Career Training
- Travel & Tourism
- Health Care Programs
- Hospitality Management

sponsors:



OKANAGAN UNIVERSITY COLLEGE



Mutual of Omaha Insurance Company



匯豐廣播
華僑之聲

星島日報
SING TAO DAILY



Sharing your Global Vision,
Shortening the Global Distance,

Education Expo helps YOU to CREATE YOUR FUTURE!

For detailed information & general inquiries, please contact 273-9682

Japanese & English

(Chinese & Korean too)

Multi-lingual
Web Site Design

From \$200

per year
(Design & Hosting)

Web Words Ink
Services

604-331-4432

email: info@ww-ink.com

日本語



3J COMPUTERS

電腦 工作室



MONTHLY SPECIALS

Quantum	WD	NEC	NEC	Epson	Panasonic	US Robotics
Fireball TM	AC34000	XV15+	XV17+	400/600	5-Disc	Voice/Fax/Modem
2.1GB/3.2GB EIDE	4.0GB EIDE	15" CRT Multisync	17" CRT Multisync	720dpi Color Printer	CD-Changer 10 Speed	33.6 Int. Full Duplex
\$299/\$368	\$479	\$519	\$949	\$323/425	\$355	\$145

6X86 Systems

Cyrix 6X86 P150+/166+ CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K PB Cache
8MB RAM (exp. 128MB)
1.2GB EIDE Hard Drive
1.44MB Floppy Drive
PCI Video Card w/1M(exp. 2M)
14" N.I. L.R. SVGA, 1024 *768 .28 Monitor
Mini Tower Case w/230W PS
104 Win 95 Enhanced Keyboard
Logitech 3B mouseman

\$959/\$999

Intel Pentium Systems

Intel Pentium 75/120
AST oem motherboard
256k Pipeline, Triton II 430vx chipset
8MB EDO RAM EXP. 128MB
1.2GB EIDE HARD DRIVE MODE 4
3.5" 1.44MB FLOPPY DRIVE
PCI EIDE W/2x16550UART SERIAL,
1Xbi-directional Parallel
Cirrus Logic 64bit w/1MB (exp. 2mb)
14" N.I. L.R. .28 SVAG MONITOR
13" TOWER CASE W/230W POWER SUPPLY
MEDIA MOUSE/PAD

\$899/\$969

Times have Changed INTERNET READY

Intel Pentium® 133/150/166/200 performance
Intel P-133 w/ 256K Pipeline w/ Triton II 430VX Chipset
AST oem Motherboard, 16MB EDO Ram 72Pin
1.6GB EIDE Hard Drive, 1.44 Floppy Drive
PCI Enhanced IDE (mode 3 & 4) w/ 16550x2
1 Enhanced Parallel Port (Bi-Directional)
ATI mach64 acceleration w/1MB dram Mpeg
15" CSA Tower Case w/ 230w Power Supply
104 win95 Enh. Keyboard & Media Mouse w/pad
Proview 15" 1280*1024 .28 SVGA Monitor
8X EIDE CDROM drive, 16bit Sound PnP, 60w Speakers
***** Zoltrix 33.6 Int. Fax/Modem *****

\$1439/1499/\$1659/1939
MMX 166/200 **\$1799/\$2099**

Intel Pentium Pro System

Intel Pentium Pro 150 CPU
Triton Chipset MB w/Built-in EIDE
Ctrl & Fast I/O, 256K PB Cache
32MB EDO Ram (exp. 128MB)
2.5GB EIDE Hard Drive
1.44MB Floppy Drive
ATI Mach64 PCI 2MB DRAM w/ Mpeg
17" ATX Tower Case w/230W PS
15" N.I. L.R. SVGA Monitor
104 Win 95 Enhanced Keyboard
Logitech 3B mouseman

\$1829

Notebooks

Toshiba

200CDS P-100 8MB 810MB 11.8 DSTN	\$2250
430CDS P-120 16MB 1.3GB 11.3 DSTN	\$2799
430CDT P-120 16MB 1.3GB 11.8 TFT	\$3689
500CDT P-120 16MB 1.3GB 12.1 TFT	\$5350
510CDT P-133 16MB 2.1GB 11.8 TFT	\$5789
660CDT P-150 16MB 1.4GB 10.3 TFT	\$6575
740CDT P-166 16MB 2.1GB 13.3 TFT	\$8299

IBM ThinkPad

365ED 5X86-100 8MB 540HD 4xCDROM DSTN	\$2099
365XD P120 8MB 1.08GB 6xCDROM SC TFT	\$2880
760E P133 16MB 1.08GB 16BIT SC TFT	\$6799

3J Computer is IBM authorized retailer



call for **BEST PRICE!**

PageMart Pager

Only **\$4.95** per month

Let's Talk Modem

USR 33.6 Int. Fax PnP	\$130.95
USR 33.6 Int. Voice/Fax PnP	\$144.95
(USR modem \$50 Rebate for retail box also available at the 3J)	
USR 28.8 Ext. V/F/M F/D	\$245.95
USR 56k Int. Fax/modem	\$229.95
Supra 33.6 Int. Fax/voice/modem	\$112.95
Zoltrix 33.6 Int. Fax/modem	\$ 89.95
Zoltrix 33.6 Int. Fax/mod/Voice	\$108.95
PCMCIA Fax/Modem 28.8	\$199.95

PRICE CHANGE WITHOUT WARNING

In Living Colour

Trident 9440 PCI 1M exp. to 2M	\$ 32.95
S3 Trio 64+ MPEG EDO 1MB	\$ 43.95
Cirrus Logic 5446 2mb Mpeg	\$ 54.95
S3 Virge 3D 2MB/4mb	\$69.95/\$99.95
ATI Mach 64 1M Dram MPEG	\$ 59.95
ATI 3D RAGE 2 PC2TV 2MB	\$169.95
Diamond Stealth64 2M Dram Mpeg	\$109.95
Diamond Stealth64 2M Vram 3D	\$245.95
Diamond Stealth64 4mb Vram 3D	\$315.95
Matrox Millennium 2m/4m Vram	\$245.95/\$349.95
Matrox Mistique 2M/4M	\$175.95/\$199.95

Think Cpu/Motherboard Think Savings

AMD 5x86-133 PCI/ISA 256K	\$159.95
Intel P-75 Triton VX 256k PPL	\$189.95
Intel P-120 Triton VX 256k PPL	\$269.95
Intel P-133 Triton VX 256k PPL	\$309.95
Intel P-150 Triton VX 256k PPL	\$349.95
Intel P-166 Triton VX 256k PPL	\$499.95
Intel P-200 Triton VX 256k PPL	\$769.95
Gigabyte GA-586HX Triton II 512K	\$159.95
Asus Triton II P/I-P55TVP4 512k	\$195.95
Intel P-166 MMX/ P-200 MMX \$529/\$799	

Simply #1

4MB 72Pin Simms	\$ 25.95
4MB 72Pin EDO	\$ 26.95
8MB 72Pin Simms	\$ 53.95
8MB 72Pin EDO	\$ 55.95
16MB 72Pin	\$ 105.95
16MB 72Pin EDO	\$ 105.95
32MB 72Pin EDO	\$ 213.95
1MB 30Pin Simms	\$ 7.95
4MB 30Pin Simms	\$ 30.95

All Listed Prices Reflect Cash Discount

SCREEN BURN

Proview 14" N.I. L/R .28 SVGA	\$223.95
Proview 15" .28 FLAT SCREEN	\$319.95
Proview 17" .28 FLAT Screen	\$594.95
NEC VX15+ 15"	\$519.95
NEC VX17+ 17"	\$949.95
SONY 100SX .25 PnP	\$509.95
SONY 15SF II .25 PnP	\$609.95
Viewsonic 17PS	\$949.95
Sony 17" SX	\$899.95
Panasonic S15 15" .27	\$435.95
Panasonic S17" .27 LR NI	\$799.95
Panasonic PM17 17" w/Dome Speaker	\$949.95

MITSUBISHI MONITORS SUPER SPECIAL

Diamond Scan 15HX 15" .28	\$ 539.95
Diamond Scan 17HX 17" .26	\$1039.95
Diamond Pro 087TXM 1600*1200 17" .25	\$1129.95
Diamond Scan 20H 20" .28	\$1989.95
Diamond PRO 091TXm 21" .28	\$2299.95

TWO YEARS PARTS AND LABOUR WARRANTY ON 3J SYSTEMS

MultiMania

Acer 8x CD-ROM	\$119.95
Hitachi 8x CD-ROM	\$125.95
Panasonic CD-ROM 12X	\$145.95
Pioneer CD-ROM 12X	\$135.95
Pioneer SCIS CD-ROM 12x	\$209.95
16Bit PnP Sound Card Full duplex	\$ 34.95
SoundBlaster 16 (PnP)	\$ 69.95
SoundBlaster 32 PnP	\$119.95
Sound Blaster 64 retail	\$235.95
Creative 12X AWE64 discovery w/9 titles/speaker	\$364.95

DRIVERS' ED CHAPTER I

1.44 Floppy Drive	\$ 27.95
1.09GB Hard Drive	\$235.95
1.2GB Hard Drive	\$249.95
1.7GB Hard Drive	\$259.95
2.1GB Hard Drive	\$299.95
3.2GB Hard Drive Quantum	\$368.95
WD 4.0GB Hard Drive	\$479.95
Quantum 3.2GB SCIS HD	\$499.95

THE BEST PRICES!

Let's Print a Deal

Canon BJC-240 Color 360dpi/Mono 720dpi	\$225.95
Canon LBP-460 laser 600dpi	\$345.95
Epson 400 720dpi	\$323.95
Epson 600 720 dpi	\$425.95
HP Deskjet 690C	\$389.95
HP Deskjet 820CXI	\$545.95
HP Deskjet 870CXI	\$699.95
HP Laserjet 5	\$1679.95
HP ScanJet 5P	\$514.95
HP Scanjet 4C	\$1119.95

CD Writer

Sony 2XWrite 6X read CDR	\$429.95
--------------------------	----------

Softwares

MS Windows 95 (with systems)	\$120
MS office Pro 97 oem	\$350
Coreldraw 7.0(retail)	\$499
MS Encarta 97	\$39
MS home bundle 97	\$85
Encarta 97 Works & Money 97	
Magic School Bus : Solar System	
Golf 3.0	
Language Learning : Chinese Mandarin	\$29
Borland C++ 4.5	\$59
Duke Nukem 3D	\$49



5305 Victoria Drive, Vancouver, BC, V5P 3V6
Tel: (604) 323-9859, 323-9815 Fax: 323-1157
Internet E-Mail address: jane@direct.ca
Bus. Hours: Mon~Sat 10am - 6pm

New Star Wars toy

s t u n s t h e m a r k e t

• • By CLAIRE YOUNG • •

The hype surrounding the re-release of the *Star Wars* trilogy has led to a replay of the merchandising bonanza first seen when the original films appeared. Just as the films have been updated and made more "high-tech," the merchandising has improved as well. For nostalgia, you'll still find the shelves of your local toy outlet stocked with Luke, Leia, and Han Solo action figures, but some of the new toys are truly astounding.

Remember the plastic light sabers we all played with back in the 1970s (admit it, we all had them)? Well, they're back, but in a new and improved version. For \$39.95 at

local toys stores and department stores, you can get a battery-operated Deluxe *Star Wars* Light Saber that is far closer to the film version than the old plastic model.

The handle appears innocuous enough before the saber is activated, but press the button to "on" and a light emerges. So, it's a flashlight, you say? Close, but this light is well-defined and can pack a punch. Constructed as a hybrid hologram, laser, and flashlight, the activated light saber "blade" appears as a sword made of glowing light. The real kicker is the Stun setting, which allows you to use it in play fights and give your opponent a slight electrical charge.

Simply shocking!

Olympic fencers have been using a similar

stun feature on their steel swords and epees during training for the past two years. They say that it gives them a better feel for the parts of their bodies they are leaving open to attack, and therefore improves their skill. It also apparently heightens the sense of competition. For the *Star Wars* version, the only down side is the battery life. Four AA batteries last about an hour and a half, so make sure you use rechargables.

The charge itself is slightly more potent than the static charge you would get from touching someone after rubbing your shoes on a carpet, but it has received a few complaints in certain US markets. The product disclaimers warn against allowing more than ten hits in any one-hour period, but product spokespeople are quick to assure customers

that the product is perfectly safe.

Bob Taylor of NewStyle PR defended the product at a recent press conference: "The charge is simple electricity that quickly dissipates and passes through the body. It is not dangerous to children, especially when viewed in comparison with the other combat weapons available on the market. These Light Sabers, in fact, take us back to a gentler, more noble age."

Maybe so, but if you're interested, you'd better rush out to get your own saber now in case they are taken off the market in the near future. Considering the value of the *Star Wars* brand, they are likely destined to become collector's items.

May the Force, and your trusty Saber, be with you! April fools! ♦

Virus hoaxes: Never-ending stories?

• • By ROBERT SLADE • •

When I was initially asked to do an article for the April edition, the Powers-That-Be thought it would be a good giggle to write up a hoax virus report. We in the antivirus research community don't think that virus hoaxes are such a funny idea, however. They tend to persist long after the "joke" is over.

For example, the warning about the "Good Times" e-mail virus—which doesn't exist—steadfastly refuses to die. Also, Penguin books recently thought it would be amusing to publicize a new book by sending out a press release warning of the "Irina" virus, another hoax. We're still getting questions asking if various antiviral software will detect it.

Instead, I offer you a true story of a virus hoax run riot. And as Dave Barry would say, I am not making this up.

Infoworld magazine, in April of 1991, carried an article reporting a computer virus that the US authorities had used to shut down Iraqi computer systems during the Gulf War/Operation Desert Storm. The bare bones of the article are that a French printer illegally purchased by Iraq was to have been smuggled into Iraq through Jordan; that US

agents intercepted the printer and replaced a microchip in the printer with one reprogrammed by the NSA; and that a virus on the reprogrammed chip invaded the air-defense network to which the printer was connected and erased information on display screens when "windows" were opened for additional information on aircraft.

The *Infoworld* article was, to careful readers, an obvious April Fool's joke (supported by the name of the virus: AF/91). The article ended with the warning that the virus was out of control and was now spreading through systems in the Western world. It was a spoof of the then-new Windows 3 program, the popularity of which was startling industry analysts. Readers of *Infoworld* had a chuckle and forgot about it.

Huh?

Someone, however, didn't get the joke. In early 1992, reports started of a virus that had shut down Iraq's air-defense system during "Desert Shield/Storm." This seems to have started with *Triumph Without Victory: The Unreported History of the Persian Gulf War* and the serialization of the book by US News and World Report. The articles were rerun in many papers, as well, apparently, as on CNN and ABC's "Nightline."

By this time, the antivirus crowd was being inundated with requests for help and information regarding the "Desert Storm" virus. Since the only help we could give people was to tell them they'd been had, USN&WR, CNN, and ABC started to look a bit foolish. Their researchers checked with the Pentagon—who, astoundingly, confirmed the existence of

the virus! Obviously a case of official "sources" taking their own information from gossip that had mutated from reports of the joke.

Robert Slade demystified the Desert Storm virus pretty thoroughly in *Robert Slade's Guide to Computer Viruses*. More virus information can be found at <http://www.freenet.victoria.bc.ca/techrev/mnvr.html> ♦

Introducing... THE CURSOR STICK

Send cheque or money order to:
CARON VENTURES

#238-9458 Prince Charles
Blvd., Surrey, B.C. V3V 1S6
(604)582-3837

www.citywidenet.com/cven/index.html
caronm@citywidenet.com

MONEY BACK GUARANTEE

\$19⁹⁹
Incl. Tax, Shipping
& Handling



the Newton store

MessagePad 2000
Has Arrived!

- 160 Mhz
- Word Processing
- Web-Browsing
- Spreadsheet
- E-mail
- Connect to Windows or Mac

VANCOUVER

1251 Pacific Boulevard,
British Columbia V6Z 2R6
604.899.0425

TORONTO

140 Adelaide St. East
Ontario M5C 1K9
416.361.0446

MONTREAL

450, Ouest Blvd. René-Lévesque
Québec H2Z 1Z6
514.954.1308

www.newtonstore.com

Apple Authorized Dealer

the Palmtop Shop

Free Deluxe
Targus Leather Case
with any Cassiopeia

WINDOWS CE
Cassiopeia
2MB/4MB
by Casio



US ROBOTICS

Pilot Personal
Pilot Professional

- Backlighting
- Modem Connection
- Email Capable
- Upgrades available

138 ADELAIDE ST. EAST, TORONTO, CAN. M5C 1K9
TEL: **416.361.3443** FAX: **416.361.0451**

1.888.PALM.4U2 | www.palmtopshop.com

Operating systems: A head-to-head comparison

Compiled by LAUREN BLANKSTEIN

Comparing operating systems is a sticky and possibly dangerous undertaking. They can be compared in many different ways, with criteria that are often hard to quantify. Also, people tend to develop an unswerving loyalty to their chosen OS—a bizarre attachment that often elicits defensive and fiery responses to any criticism.

Unfortunately, due to space restrictions, we were not able to address all (or even most) of the various elements that make up an operating system in our comparison. Instead, we chose to focus on questions and issues that might best help the average computer user in the throws of deciding which OS to choose for their individual needs—a decision that can determine whether turning on their computer is a painful or productive experience.

We enlisted the help of our writers to represent what we believe are the most widely used operating systems: Lynn Greiner answered for Windows 3.1 and Windows 95, Kevin Linfield covered OS/2 and Linux, David Rosen went to bat for Macintosh, and Alan Zisman responded for Windows NT.

1. For what environment (home, business, school) is your OS best suited?

LINUX—School (students), Internet machines (Web servers), anywhere where security is needed. Best multiuser operating system.

MACINTOSH—This is difficult to quantify, but I'd say the MacOS is best in a home, small- to medium-scale business or school environment, but not in a heavy-duty data-processing or mainframe shop. Some people say the Mac wasn't designed to run in large-scale networks, but I've seen ones at Apple, Northern Telecom, NASA and other places that do just fine running thousands of Macs.

OS/2—Power home user or business. Good for software developers (developing DOS or Win 3.x software). Excellent for networks.

WINDOWS NT—Designed as an industrial-strength workplace operating system. Many home users will be frustrated by its lack of Plug and Play, lack of drivers for some popular peripherals (such as printers), and the need to dual boot to DOS to run many games, as well as its high hardware requirements. Its built-in networking client support and security features make it well-suited for many business users.

WINDOWS 3.1—Any environment, although many businesses are opting to jump straight from Windows 3.1 to NT.

WINDOWS 95—Microsoft positions 95 as an environment for those needing DOS/Windows 3.1 application compatibility.

2. How computer-savvy should a user be (beginner, average, expert) to quickly learn how to use this OS?

LINUX—Average to expert. OS experience is a plus.

MACINTOSH—The Mac is appropriate for all levels, but is especially well suited for beginning and moderately experienced customers due to its ease of use and seamless integration between its hardware and software. Macs are designed for people who work with information but don't want to get involved in the bits and bytes of programming.

OS/2—Aimed at average to expert.

WINDOWS NT—NT systems probably need to be initially set up by a moderately expert person; afterwards, with the Windows 95 interface, a beginner can quickly become a productive user.

WINDOWS 3.1—Used by every level, from novice to expert. Users new to Windows 3.1 find it puzzling at first, but even novices catch on to the basics within an hour or two. More

advanced use and troubleshooting do have fairly steep learning curves.

WINDOWS 95—Used by every level, from novice to expert. According to Microsoft, Windows 95 is more intuitive (they did extensive usability lab testing to make sure even a novice could catch on quickly). Windows 3.1 users attempting to switch tend to have some frustrating moments because of the radically different user interface.

3. What are the hardware requirements for your OS (memory, disk space, CD-ROM)?

LINUX—Text mode: 386, 4 MB RAM, 10 MB hard-drive space (minimum). Graphical: 486, 8 MB RAM, 100 MB hard-drive space. Mouse and CD-ROM recommended but not required.

MACINTOSH—Mac OS 7.6 requires a Mac or Mac compatible with a 68030, 68040, or PowerPC processor or higher, at least 16 MB of RAM and at least 70 MB of hard-drive space (this number varies based on installation choices). Optional portions of Mac OS 7.6 (such as Cyberdog, OpenDoc, and QuickDraw 3D) require a PowerPC processor. A CD-ROM drive is recommended but not required.

OS/2—OS/2 Warp 4.0 requires a minimum of 12 MB of RAM, a 486 processor, and 80 MB of hard-drive space. A CD-ROM and mouse are recommended but not required.

WINDOWS NT—16 MB RAM minimum (32 MB better). Roughly 120 MB hard-drive space. CD-ROM required for installation.

WINDOWS 3.1—"Official" requirements are 286 PC or better with 2 MB RAM and 6.2 MB hard-drive space. For Windows 3.11, "official" requirements are 386 SX or better, 3 MB RAM (4 recommended), about 6.2 MB hard-drive space (14.5 recommended).

Realistically, a 386 DX with 8 MB RAM and 20 to 30 MB hard-drive space works better. Windows may install into only 14 MB or so, but as soon as you install an application, fonts, supplementary drivers, and so forth they gobble space. A mouse is theoretically not necessary, but few users can cope without one.

WINDOWS 95—"Official" requirements: 386 DX PC with 4 MB RAM (8 recommended), 50 to 55 MB hard-drive space, VGA monitor or better. Realistically, Windows 95 is a dog in 4 MB RAM, barely adequate in 8 MB, and is happiest in 16 MB or more. A faster processor is better as well, and count on about 70 MB disk space. A mouse is almost a necessity.

4. What steps are required for installation?

LINUX—Boot from floppies; install from CD-ROM.

MACINTOSH—Easy. In fact, the new Mac OS 7.6 has a centralized and streamlined installer eliminating most (if not all) installation problems. Remember, though, all Macs come with the operating system preinstalled.

OS/2—Boot from three floppies, then install

continued on page 37

Do you want to do 3D Animation or Digital Video?

3D ANIMATION

Kinetix 3D Studio MAX
Best prices from Canada's largest 3D Studio Dealer

Directly competing with other high end SGI app's MAX is here and it's hot.... Before you buy any package come see the industry standard PC Animation tool. Call today for Vancouver's best prices on both full packages and upgrades.

STUDENT MAX.. \$895

CALL Today for a DEMO

We also carry a variety of 3D Accelerator cards for MAX, Lightwave and SoftImage.

NEW BOOKS and MAGS

IC Technology is proud to announce we now carry a wide variety of trade magazines such as CGW, 3D Artist, Digital Video and others.

We also carry a range of books relating to MAX and Lightwave.



ic technology

1252 Burrard St. Vancouver
604 681 7057 www.icttech.ca

DIGITAL VIDEO

Broadcast Video at affordable prices



Outstanding PROFESSIONAL VIDEO quality from DPS (makers of the PAR).

SCSI-2, PCI bus, Component Video & Betacam @ 60 fields/sec, 720x480 resolution. Real-time capture and playback Video & Animation. Works with many powerful editing packages such as Speed Razor, Premiere and Video Action NT.

DPS AUTHORIZED FULL TURNKEY DIGITAL PROCESSING SYSTEMS INC. DUAL PENTIUM PRO SYSTEMS AVAILABLE

micro VIDEO DC30

Professional studio-quality nonlinear digital video and audio editing system. Capture, edit, add special effects or titles to your video, mix CD-quality audio, and then output the final cut to video tape. Perfect for Wedding and Family Videos..... includes...

Full Version of Adobe Premiere 4.2 Photoshop LE and 3D F/X Only \$1395.00



GPOBOX.COM

provides low-cost business Email service without the expense of running a mail server.

BUSINESS PACKAGE
3 Email Forwardings from \$10.50 / month + POP option
Bonus URL Redirection

* ISP independent
* meaningful user-id / role-id
* simplify your web site URL to "xxx.gpobox.com" standard

PERSONAL
Email Forwarding \$24.99 / 12 months
POP Account \$59.99 / 12 months
shorter terms also avail

Email Forwarding - An Email address that's good for lifetime!

Signup on-line at
<http://www.gpobox.com>
info@gpobox.com
Call 604-291-7110

Operating systems: A head-to-head... continued from page 36

from CD-ROM. May need to repartition (i.e., reorganize) if running multiple operating systems (comes with Boot Manager and Dual Boot for this purpose).

WINDOWS NT—If hardware meets the NT compatibility list, installation is straightforward. (Note: installation of NT Server is, inevitably, much more complex). If no networking is involved, it is quite simple; if networking is involved, users need to be able to answer some technical questions related to their network.

Note, however, that while NT can be installed over an existing Windows 3.1 installation, and will properly migrate application settings, if installed over an existing Windows 95 setup, applications will need to be reinstalled.

WINDOWS 3.1—Run setup from DOS, verify the system hardware when asked, choose an installation directory when asked, select a printer when asked, change up to eight diskettes. Need some PC knowledge, has no smarts about device detection. Adding devices can be a pain.

WINDOWS 95—Best done from a CD. Must enter a code from the Certificate of Authenticity before installation can proceed. Must know what hardware is installed, although the installation tries to detect it. To make things easier, a "wizard" walks you through a procedure, step by step, explaining what it's up to and helping you make the necessary choices. More complex than 3.1.

5. How much aggravation is involved

in maintenance (e.g., defragmentation, file repair, and so on)?

LINUX—Minimal. No defragmentation needed. OS automatically fixes errors. Non-postscript printers can be a hassle.

MACINTOSH—Low. The philosophy behind the Mac OS is that the machine should do the thinking if it's at all possible, letting the computer's owner concentrate on the real job at hand.

OS/2—If using HPFS file system (a file system used by OS/2, versions of NT, and various flavours of UNIX), minimal. No defragmentation needed. Auto checkdisk.

WINDOWS NT—Because NT is very stable, there's not much problem with system crashes. Users of NT's own NTFS file system, in particular, have a very stable system, and find less file fragmentation than with standard DOS and Windows systems. Note that no defragmentation utility is included with the operating system, but a free utility is available called *Diskeeper Lite*, from Executive Software.

WINDOWS 3.1—Should regularly run a disk-checking utility to repair lost clusters and occasionally defragment the hard disk. The Windows 3.1 swap file may need occasional adjustment. Needs third-party applications to delete unused programs.

WINDOWS 95—Should regularly run a disk-checking utility to repair lost clusters (Windows 95 Plus pack includes a System Agent that automates this and other housekeeping) and occasionally defragment the hard disk. Manages its own swap file dynamically. An option to "un-

stall" makes deleting unused programs tidy.

6. Support—are updated drivers easily/frequently available? Is there a lot of information available (in books, magazines, etc.) about your system?

LINUX—User community writes their own drivers. Extensive availability. Moderate number of UNIX books.

MACINTOSH—A place where the Mac really shines is adding drivers (called Extensions or Managers on the Mac). In the Mac, the OS knows what these drivers are and loads them automatically in the correct place on the hard drive (usually the Extensions Folder). Just about any online service has Mac extensions, free for the downloading. Apple also includes a mini-application called Extension Manager, designed to resolve conflicts between various third-party extensions.

OS/2—Lots of drivers from the Internet. Lots of information on the WWW. Minimal number of printed magazines.

WINDOWS NT—The number of books available on NT 4.0 workstation has been steadily growing since its release last fall. I now count about a dozen aimed at a "general" audience. *Windows* magazine and *Windows Sources* magazine include the best ongoing information about NT 4.0. Updated drivers are available from <http://www.microsoft.com/>, where two service packs and several general updates have also been posted.

WINDOWS 3.1—Drivers and patches are available on the Microsoft Web site, plus some online services.

If the patch doesn't exist now, it probably never will, but manufacturers still supply device drivers.

WINDOWS 95—Actively supported; manufacturers still supply device drivers.

7. Does the OS have built-in support for the Internet? How easy is it to hook up to the Net? What steps are involved?

LINUX—Free dialer and TCP/IP software. Must be manually set up for SLIP/PPP.

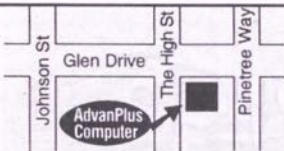
MACINTOSH—Mac OS 7.6 enables easy connection to the Internet by including the latest versions of the Apple Internet Connectivity Kit, OpenDoc Essentials Kit, Cyberdog, and Open Transport software, as well as connectivity tools such as PPP, TCP/IP, and ARA. CyberDog technology lets you bring the Internet into your Live Objects-aware documents. This means, for example, that you can connect to live Web pages using simple single-button access to the Net. The new OS also includes a copy of AOL Canada's software, letting you join the AOL community as well.

OS/2—Yes, it has built in support for any ISP (Advantis is IBM's own, but comes with full software to hook up via SLIP or PPP to any ISP). To connect to Advantis, simply double click on an icon. For other providers, fill in the blanks (TCP/IP info required).

WINDOWS NT—TCP/IP and Dial-Up Networking are included and relatively straightforward to install. NT 4.0 ships with Microsoft Internet

continued on page 40

AdvanPlus Computer



Pentium 120 System

SPECIAL
Intel Pentium P120-CPU
PCI/ISA Mother Board
Built-in EIDE Ctrl
256K Pipeline Burst cache
8 MB RAM
PCI 64bit Video Card
1.3 GB Hard Drive
1.44 MB Floppy Drive
Mini-tower Case, 230W PS
104 Win95 Keyboard
2 or 3 Button Mouse

\$680⁰⁰

Pentium Plus System

Intel Pentium 133/166/200
PCI/ISA Mother Board
Built-in EIDE Ctrl
256K Pipeline Burst cache
16MB RAM
PCI 64bit Video Card
1.7GB Hard Drive
1.44MB Floppy Drive
Mini-tower Case, 230W PS
104 Win95 Keyboard
2 or 3 Button Mouse

\$835/\$1053/\$1299

Pentium Pro System

Intel Pentium P-PRO 150/180/200
Triton Chipset Motherboard
Built-in EIDE Ctrl
256K Pipeline Burst Cache
32MB RAM
PCI 64bit Video Card
2.1GB Hard Drive
1.44 MB Floppy Drive
15" Mid-Tower Case, 230W PS
104 Win95 Keyboard
2 or 3 button Mouse

\$1188/\$1488/\$1688

Motherboard

Pentium Motherboard \$128
Gigabyte PCI/ISA VX 512K 170
Gigabyte PCI/ISA HX 512K 183
Asus Triton II VX 256K 173
Asus Triton II HX 256K 190
Intel Chipset Pentium Pro 258

CPU with Motherboard

Pentium 100/120 \$240/258
Pentium 133/150 328/398
Pentium 166/200 528/768
Pentium PRO 180/200 959/1399
Cyrix 6x86 120+/150+ 259/289
Cyrix 6x86 166+ 367
AMD 5x86 100/133 169/199

Hard Drive

WD 1.7GB/2.1GB EIDE \$280/325
WD 2.5GB/3.1GB EIDE 365/395
WD 4.0 GB 460
1.3GB/1.7GB EIDE 245/272
2.1GB/2.5GB EIDE 309/339

Memory

30p 1MB/4MB \$12/31
72p 4MB/8MB EDO 26/44
72p 16MB/32MB EDO 94/191
DIMM 8MB/16MB 71/109
DIM 32MB/64MB 227/560
256K/512 Pipeline Cache 20/43
SOJ Video RAM 1M 18

Keyboard and Mouse

Win95 104 Keyboard \$20
Fujitsu 8725/4725 30/60

Logitech Mouse 2B/3B

Microsoft Mouse \$20/35

Others 35

13"/15"/17" w/230W Tower Case

19"/24" w/230W Tower Case \$47/57/68

PS Microphone 78/104

PS Microphone 10

Monitor

SVGA Monitor 14" /15"/17" \$239/329/615

Proview 14"/15"/17" 258/348/629

Daytek 14"/15"/17" 268/347/697

SCEPTRE 14"/15"/17" 285/380/699

MAG DX 15" 28/25 456/508

MAG DX 17" 28/26/25 755/835/950

NEC 15" C500/SV+ 545/635

Viewsonic 15" 15GS 510

Video Card

S3 Trio 64bit PCI, 1M/2M 49/69

S3 3D Virge 2M/4M w/Games 89/130

ATI Mach 64D, 1M/2M w/MPEG 75/95

ATI 3D+2M/4M w/MPEG 163/199

ATI 3D+1M/2M w/MPEG, PC2TV 183/218

ATI Pro Turbo 4M/8M, PC2TV 280/395

Diamond Stl 64D, 1M/2M 94/115

Matrox Milenia 2M/4M VRAM 248/357

Matrox Mystique 3D 2M/4M 199/245

Software

Win 95 Full Version \$119

MS-Office Pro 7 269

Corel WordPerfect Suite 7 85

MS NT Workstation 4.0 289

MS Home Bundle (Encarta 97, MS Golf, Solar System, Works & Money) 55

Limited Quantity, Prices are cash discounted and subject to change without notice. Call for the current prices.

No. 5-1161, The High Street, Coquitlam (Near Coquitlam Centre) Tel: (604) 942-9633
Fax: (604) 942-9613 Mon-Fri 10:00 -6:00 Sat. Sun. 11:5:00. Vancouver Tel: (604) 221-6668



SYSTEM - PRO COMPUTERS Ltd.
TEL : 583-9977 FAX : 583-9979

Anniversary Special

120/133/150/166/200MHz Pentium

Processor-based systems

GIGA-BYTE PCI-ISA Board
256 K PipeLine Burst Cache
16M EDO Ram
3.5" Floppy Drive
M3 PCI Video Card w/ 1M Ram
Proview 14" SVGA Monitor
15" Mid Tower Case
Western Digital 1.2GB EIDE Hard Drive
Acer/ Mitsumi 8x CD-Rom Drive
SoundBlaster 16 Bit PnP Card w/ Speaker
Fujitsu Win95 104-Key Keyboard
Logitech Bus Mouse w/ Mouse Pad

\$1543/1591/1651/1831/2179

System Upgrade Options :

Upg. to Intel MMX CPU Call
Upg. to 32M/64MB EDO Ram \$110/330
Upg. to 1.6G/2.1G/2.53.1G H.D. \$50/90/120/185
Upg. to SoundBlaster 32 PNP Card \$75
Upg. to Matrox Mystique/Millennium \$185/215
Upg. to Proview/Acer 15" Monitor \$110/165
Upg. to Acer/NEC 17" Monitor \$475/850
Upg. to USR 33.6/22.8 Fax/Modem \$165
Upg. to USR 33.6/22.8 V/F/Modem \$195
Upg. to 12X CD-Rom \$45



TVM Raven NEC
AUTHORIZED RESELLER

HardDrives

W.D. EIDE 850 \$245
W.D. EIDE 1.2G \$295
W.D. EIDE 1.6G \$315
W.D. EIDE 2.1G \$360
W.D. EIDE 2.5G \$397
W.D. EIDE 3.1G \$460
W.D. EIDE 4.0G \$535

Printers

Canon BJC-240 Inkjet \$279
Canon BJC-4100 Inkjet \$337
Canon BJC-4200 Inkjet \$347
Epson Stylus 400 \$365
HP 680C Inkjet \$385
HP 690C Inkjet \$410
HP 5L Laser Printer \$599
HP 6P Laser Printerr \$1050
HP 5 Laser Printer \$1846

Monitors

Proview 14", Green \$275
Proview 15", Green \$420
Daytek 14", Green \$299
Mag MXV17/s 17" \$1050
Acer 15", Green \$450
Acer 17", Green \$715
NEC VX 17" Green \$1090

Pentium is a registered trademark of Intel Corporation.

Motherboard w/CPU & Fan

120MHz Pentium chip-based MB \$430
133MHz Pentium chip-based MB \$470
150MHz Pentium chip-based MB \$520
166MHz Pentium chip-based MB \$670
200MHz Pentium chip-based MB \$960
P6-200 Pentium pro chip-based MB \$1400
166MHz Pentium MMX based MB \$825
200MHz Pentium MMX based MB \$1135

TapeBackup

Iomega 800MB Int/Ext \$178/198
Iomega 2GB/3.2GB Int \$250/330
Colorado 800M In/Ex \$215/275
Colorado Jumbo1400 Int. 1.3G \$285
Seagate Tapestor 800 Int. \$215
Seagate Tapestor Traven 3.2G \$315

ZIP/JAZZ DRIVE

ZIP Drive 100M Par/SCSI \$285
JAZZ Drive 1.0G SCSI INT. \$540

Prices subject to change without any notice

Computer Service Center
System Diagnostic
System Upgrade
System Repair

Business Hours:

Mon-Fri 9:30AM - 6:00PM
Saturday 11:00AM - 5:00PM
Sunday Closed
Long Closed
Week-End Closed

Internet Email Address: syspro@axionet.com

COMPUTER BOOKS : UP TO 40% DISCOUNT

SALES.UPGRADE.NETWORKING.TRAINING.LEASING.

Address : Unit #1, 10330, 152nd Street, Surrey, B.C. V3R 4G8
(Across from Guildford Mall, right behind Roger Video)

**4620 Viking Way
UNIT 150
RICHMOND, B.C.
Phone: 604.214.1442
Fax: 604.214.1412
RICHMOND.TORONTO**

zsa
COMPUTER
E-mail zsale

TAPE UNITS

TORAY PD OPTICAL	650MB	PARALLEL	EXT	\$ 539
TORAY PD OPTICAL	650MB	SCSI	INT	\$ 379
TORAY PD OPTICAL	650MB	SCSI	EXT	\$ 499
IOMEGA ZIP	100MB	PARALLEL	EXT	\$ 249
IOMEGA ZIP	100MB	SCSI	EXT	\$ 249
IOMEGA JAZZ	1GB	SCSI	INT	\$ 489
IOMEGA JAZZ	1GB	SCSI	EXT	\$ 609

NETWORKING

3COM	10/100BT (3C509) (PCI)	\$ 129
3COM	100BT (3C215A) HUB	\$1599
INTEL	10/100BT (PCI)	\$ 99
INTEL	WORKGROUP KIT 100BT HUB & 10 100BT	\$2549
KTX	10BT COMBO (ISA)	\$ 35
KTX	10BT COMBO (PCI)	\$ 49
KTX	8 PORT HUB	\$ 99
KTX	16 PORT HUB	\$ 199

MODEMS

USR	33.6	INT.	WINMODEM	\$ 149
USR	33.6	INT.		\$ 185
USR	33.6	INT.	VOICE/SPEAKER	\$ 205
USR	33.6	EXT.		\$ 205
USR	33.6	EXT.	VOICE/SPEAKER	\$ 239
KTX	33.6	INT.		\$ 99
KTX	33.6	INT.	VOICE	\$ 109
KTX	33.6	EXT.		\$ 129

ALL MODEMS ARE IN RETAIL BOX

MULTIMEDIA

MITSUMI	8X	\$ 119
MITSUMI	12X	\$ 139
MITSUMI	16X	\$ 179
PANASONIC	12X	\$ 149
PLEXTOR	12X SCSI	\$ 399
PIONEER	12X	\$ 169
PIONEER	12X SCSI	\$ 219
CREATIVE	2X CD RECORDER KIT	\$ 599
YAMAHA	4X CD RECORDER INT	\$ 859
YAMAHA	4X CD RECORDER EXT	\$ 999
YAMAHA	4X CD RECORDER KIT	ADD \$ 200
BLANK RECORDABLE CD		\$ 9
KTX 16		\$ 49
CREATIVE SOUND BLASTER	16 PNP (OEM)	\$ 69
CREATIVE SOUND BLASTER	32 PNP (OEM)	\$ 115
CREATIVE SOUND BLASTER AWE64 PNP (BOX)		\$ 235
CREATIVE SOUND BLASTER AWE64GOLD PNP (BOX)		\$ 299
CREATIVE WAVE BLASTER II GAME PACK		\$ 139
CREATIVE DISCOVERY AWE64 KIT		\$ 399
YAMAHA WAVETABLE		\$ 199

MOTHERBOARDS

KTX	PENTIUM (TRITON III)	256K PIPELINE	\$129
KTX	PENTIUM (TRITON III)	512K PIPELINE	\$149
ASUS	PENTIUM (TRITON II)	512K PIPELINE	\$179
ASUS	PENTIUM (TRITON III)	256K PIPELINE	\$165
ASUS	PENTIUM PRO		\$319
ASUS	PENTIUM PRO (ATX)		\$339
ASUS	PENTIUM PRO DUAL		\$699
INTEL	PENTIUM (TRITON II)	256K (ATX)	\$289
INTEL	PENTIUM PRO	(ATX)	\$369
INTEL	PENTIUM PRO DUAL SOCKET	(ATX)	\$769
TYAN	PENTIUM TOMCAT II DUAL	256K PIPELINE	\$259
TYAN	PENTIUM TOMCAT II DUAL	512K PIPELINE	\$279
TYAN	PENTIUM TOMCAT III	512K PIPELINE	\$239
TYAN	PENTIUM TOMCAT II DUAL	512K PIPELINE	\$319
TYAN	PENTIUM TITAN VX	256K PIPELINE	\$179
TYAN	PENTIUM TITAN VX	256K (ATX)	\$199
TYAN	PENTIUM PRO TITAN		\$395
TYAN	PENTIUM PRO TITAN DUAL SOCKET		\$575
TYAN	PENTIUM PRO TITAN DUAL SOCKET (ATX)		\$575

PRINTERS

CANON	BJ-30	\$ 279
CANON	BJC-4200	\$ 309
CANON	BJC-4550	\$ 555
CANON	BJC-240	\$ 219
BROTHER	HL-630 LASER	\$ 320
BROTHER	HL-730DX (\$50 MAIL-IN)	\$ 435
BROTHER	HL-760DX (\$50 MAIL-IN)	\$ 535
BROTHER	HL-1260	\$1330
EPSON	COLOR 400 (IN-STOCK)	\$ 315
EPSON	COLOR 600	\$ 399
EPSON	COLOR 800 (IN-STOCK)	\$ 599
HP	DESKJET 340	\$ 380
HP	DESKJET 400	\$ 239
HP	DESKJET 680C	\$ 339
HP	DESKJET 690C	\$ 379
HP	DESKJET 820CXI	\$ 495
HP	DESKJET 870CXI	\$ 625
HP	LASERJET 5L	\$ 519
HP	LASERJET 5M	\$2349
HP	LASERJET 5N	\$1979
HP	LASERJET 6MP	\$1219
HP	LASERJET 6P	\$ 945
HP	LASERJET 5	\$1675
HP	LASERJET 5SI	\$3599
LEXMARK	2030	\$ 280
LEXMARK	2050	\$ 335
LEXMARK	2070	\$ 399
LEXMARK	OPTRA E	\$ 579

PRINTER CABLE NOT INCLUDED

MEMORY

4MB	72 PIN	\$ 40
4MB	72 PIN EDO	\$ 40
8MB	72 PIN	\$ 59
8MB	72 PIN EDO	\$ 59
16MB	72 PIN	\$ 119
16MB	72 PIN EDO	\$ 119
32MB	72 PIN	\$ 219
32MB	72 PIN EDO	\$ 219

CPU'S

CYRIX/IBM	P150+	(OEM)	\$149
CYRIX/IBM	P166+	(OEM)	\$189
CYRIX/IBM	P200+	(OEM)	\$299
INTEL	PENTIUM 133MHZ	(RETAIL)	\$210
INTEL	PENTIUM 166MHZ	(RETAIL)	\$430
INTEL	PENTIUM 200MHZ	(RETAIL)	\$730
INTEL	PENTIUM 166MHZ	(RETAIL) MMX	\$580
INTEL	PENTIUM 200MHZ	(RETAIL) MMX	\$850
INTEL	PENTIUM PRO 180	(RETAIL)	\$900
INTEL	PENTIUM PRO 200	(RETAIL)	\$900

MISC.

KEYTRONIC	104 KEYBOARD	\$ 30
MITSUMI	1.4 FLOPPY	\$ 30
	15" CASE W/200W	KTX \$ 49
	15" CASE W/230W	KTX \$ 59
	17" CASE W/230W	\$ 79
	19" CASE W/250W (ATX)	\$ 109
	24" CASE W/200W	KTX \$ 100
	24" CASE W/250W (ATX)	IMAGE \$ 235
	LOGITECH OR MICROSOFT SERIAL MOUSE	\$ 35
	YAMAHA M7 SPEAKERS	\$ 59
	YAMAHA M15 SPEAKERS	\$ 79
	YAMAHA M20 SPEAKERS	\$ 99

SCANNERS

MICROTEK E6 PRO	FALTBED	600DPI	\$ 849
MICROTEK E6 STANDARD	FLATBED	600DPI	\$ 659
MICROTEK E3	FLATBED	300DPI	\$ 289
MICROTEK III	FLATBED	1200DPI	\$1899
UMAX	S6E LITE	FLATBED 300DPI	\$ 399
UMAX	S6E FULL	FLATBED 300DPI	\$ 799
UMAX	S12 LITE	FLATBED 1200DPI	\$ 699
UMAX	S12 FULL	FLATBED 1200DPI	\$ 899
HP 4S			\$ 279
HP 5P			\$ 499
HP 4C			\$1129
KTX	FLATBED	300DPI	\$ 349

HARD DRIVES

FUJITSU (M1636TAU)	1.3GB	(10MS/128K)	\$ 245
FUJITSU (M1623TAU)	1.7GB	(10MS/128K)	\$ 249
FUJITSU (M1624TAU)	2.1GB	(10MS/128K)	\$ 299
FUJITSU (M1638TAU)	2.6GB	(10MS/128K)	\$ 329
QUANTUM FIREBALL	1.1GB	(12MS/64K)	\$ 229
QUANTUM FIREBALL	1.3GB	(10MS/128K)	\$ 245
QUANTUM FIREBALL	2.1GB	(10MS/128K)	\$ 289
QUANTUM FIREBALL	2.5GB	(10MS/128K)	\$ 315
QUANTUM FIREBALL	3.1GB	(10MS/128K)	\$ 365
QUANTUM FIREBALL	3.8GB	(10MS/128K)	\$ 439
W.D. (AC21200)	1.3GB	(10MS/64K)	\$ 259
W.D. (AC21600)	1.6GB	(10MS/128K)	\$ 279
W.D. (AC22100)	2.1GB	(10MS/128K)	\$ 299
W.D. (AC32500)	2.5GB	(10MS/128K)	\$ 335
W.D. (AC33100)	3.1GB	(10MS/128K)	\$ 379
W.D. (AC34000)	4.1GB	(11MS/128K)	\$ 468
SCSI			
SEAGATE (51080N)	1GB (12MS/256K)	NARROW	\$ 359
SEAGATE (31055N)	1GB (9MS/256K)	ULTRA	\$ 425
SEAGATE (31055W)	1GB (9MS/256K)	U.W.	\$ 560
SEAGATE (32155N)	2GB (9MS/256K)	ULTRA	\$ 645
SEAGATE (32155W)	2GB (9MS/256K)	U.W.	\$ 740
SEAGATE (32171N)	2GB (8MS/512K)	ULTRA	\$ 859
SEAGATE (32171W)	2GB (8MS/512K)	U.W.	\$ 949
SEAGATE (34371N)	4GB (8MS/512K)	ULTRA	\$1299
SEAGATE (34371W)	4GB (8MS/512K)	U.W.	\$1359
W.D. (2170-3)	2GB (8MS/512K)	NARROW	\$ 825
W.D. (2170-7)	2GB (8MS/512K)	WIDE	\$ 845
W.D. (4360-3)	4GB (8MS/512K)	NARROW	\$1275
W.D. (4360-7)	4GB (8MS/512K)	WIDE	\$1325

VIDEO CARDS

ATI 3D EXPRESSION 2MB	W/MPEG (OEM)	\$ 88
ATI 3D EXPRESSION 2MB EXP.	4MB W/MPEG (OEM)	\$ 145
ATI 3D EXPRESSION 2MB EXP.	4MB W/MPEG (BOX)	\$ 185
ATI 3D EXPRESSION 4MB	W/MPEG (OEM)	\$ 175
ATI 3D EXPRESSION 4MB	W/MPEG (BOX)	\$ 210
ATI 3D EXPRESSION 2MB EXP.	4MB W/PC2TV (OEM)	\$ 155
ATI 3D EXPRESSION 2MB EXP.	4MB W/PC2TV (BOX)	\$ 189
ATI 3D EXPRESSION 4MB	W/PC2TV (OEM)	\$ 195
ATI 3D EXPRESSION 4MB	W/PC2TV (BOX)	\$ 219
ATI 3D PRO TURBO	4MB EXP. 8MB W/PC2TV (OEM)	\$ 239
ATI 3D PRO TURBO	4MB EXP. 8MB W/PC2TV (BOX)	\$ 249
ATI 3D PRO TURBO	8MB W/PC2TV (OEM)	\$ 329
ATI 3D PRO TURBO	8MB W/PC2TV (BOX)	\$ 339
ATI TUNER CARD	(BOX)	\$ 129
MATROX MILLENIUM	2MB WRAM W/MPEG (BOX)	\$ 235
MATROX MILLENIUM	4MB WRAM W/MPEG (BOX)	\$ 335
MATROX MILLENIUM	VIDEO CAPTURE/MPEG (BOX)	\$ 399
MATROX MILLENIUM	TV TUNER (BOX)	\$ 169
MATROX MILLENIUM	2MB UPGRADE MODULE (BOX)	\$ 125
MATROX MILLENIUM	4MB UPGRADE MODULE (BOX)	\$ 235
MATROX MILLENIUM	6MB UPGRADE MODULE (BOX)	\$ 330
MATROX MYSTIQUE	2MB SDRAM W/MPEG (BOX)	\$ 169
MATROX MYSTIQUE	4MB SDRAM W/MPEG (BOX)	\$ 215
MATROX MYSTIQUE	2MB UPGRADE MODULE (BOX)	\$ 70
S3 3D VIRGE	2MB EXP. 4MB W/MPEG (BOX)	\$ 69
STB VELOCITY 3D	4MB EXP. 8MB (BOX)	\$ 249
STB LIGHTSPEED	2MB (BOX)	\$ 179
STB POWERGRAPH 64	2MB (BOX)	\$ 149
TRIDENT 9680	1MB DRAM W/MPEG (BOX)	\$ 49
TRIDENT 9685	2MB DRAM W/PC2TV (BOX)	\$ 69
UPGRADE 1MB TO 2MB DRAM		\$ 30

SATURDAY SPECIALS

SAT. APRIL 12

MATROX MYSTIQUE 2MB (RETAIL) \$139*

QUANTUM 2.1GB \$269*

HP DESKJET 690C \$349*

KTX 17" MONITOR \$559*

* ALL PRODUCTS ARE IN LIMITED QUANTITIES, CASH ONLY

HOURS: Monday - Friday 9:30 am - 6:00 pm Saturday 11:00 am - 6:00 pm Sunday 12:00

MONITORS

ACER	14"	1024x768	.28	34T	\$ 249
ACER	15"	1280x1024	.28	54E	\$ 349
ACER	15"	1280x1024	.28	56E	\$ 379
ACER	17"	1280x1024	.28	76IE	\$ 659
ACER	17"	1600x1200	.28	78IE	\$ 699
DAEWOO	14"	1427X1			\$ 299
DAEWOO	15"	1502B			\$ 399
DAEWOO	15"	1509B			\$ 439
DAEWOO	17"	1703B			\$ 699
DAEWOO	17"	1704C			\$ 779
DAEWOO	17"	1705B			\$ 749
DAEWOO	20"	2000M			\$1499
DAYTEK	14"	1024x768	.28	DT1436	\$ 249
DAYTEK	15"	1024x768	.28	DT1536	\$ 325
DAYTEK	15"	1280x1024	.28	DT1531	\$ 365
DAYTEK	17"	1280x1024	.28	DT1731	\$ 639
DAYTEK	17"	1280x1024	.25	DT1704C	\$ 899
DAYTEK	20"	1600x1280	.28	DT200M	\$1399
HITACHI	17"	1600x1200	.26	CM1711	\$1195
HITACHI	17"	1600x1200	.22	CM611CE	\$1360

DOWN
EN
DAY'S

HITACHI	20"	1280x1024	.28	CM2011	\$1920
HITACHI	20"	1600x1280	.25	CM701	\$2310
HITACHI	21"	1600x1200	.22	CM800U	\$2410
HITACHI	21"	1600x1200	.22	CM802U	\$2675
HITACHI	21"	1800x1440	.22	CM803U	\$3099
HITACHI	21"	1600x1200	.22	UX4721	\$2549
HITACHI	21"	1600x1280	.22	UX4921	\$2949
HITACHI	21"	1600x1280	.22	UX6821	\$3199
KTX	14"	1024x768	.28		\$ 209
KTX	15"	1280x1024	.28	DIGITAL	\$ 309
KTX	17"	1280x1024	.28		\$ 579
MAG	14"	1024x768	.28	DX1495	\$ 339
MAG	15"	1280x1024	.25	DX15T	\$ 449
MAG	15"	1280x1024	.28	DJ530	\$ 469
MAG	17"	1280x1024	.25	DX700T	\$ 849
MAG	17"	1280x1024	.26	DJ700	\$ 795
MAG	17"	1280x1024	.28	DJ702E	\$ 820
MAG	17"	1280x1024	.28	DJ707	\$ 849
MAG	17"	1600x1280	.26	DJ717	\$1020
MAG	21"	1600x1280	.28	DJ920	\$2050
NANAO	15"	1280x1024	.28	FX-B5	\$ 669
NANAO	17"	1280x1024	.28	FX-C5	\$ 949
NANAO	17"	1600x1200	.26	FX-C6	\$1069
NANAO	17"	1600x1200	.25	T217TS	\$1219
NANAO	17"	1600x1200	.25	TKC7S	\$1349
NANAO	20"	1600x1200	.30	T2-20	\$2395
NANAO	20"	1600x1200	.25	TX-D7S	\$2249
NANAO	21"	1600x1200	.28	FX-E7	\$2299
NANAO	21"	1600x1200	.26	FXZ-21	\$3799
NOKIA	17"	1600x1200	.25	447XI	\$1235
NOKIA	21"	1600x1200	.26	445XI	\$2395
NOKIA	21"	1600x1200	.26	445XITOC	\$2495
PHILIPS	15"	1280x1024	.28	1215DC	\$ 549
PHILIPS	17"	1280x1024	.28	107B	\$ 869
PHILIPS	17"	1280x1024	.28	MB7000T	\$ 699
PHILIPS	17"	1600x1200	.26	107	\$1099
PHILIPS	20"	1280x1024	.31	20CM64D1	\$1309
PHILIPS	20"	1600x1280	.28	20B	\$1649
PRINCETON	14"	1024x768	.28	E014	\$ 340
PRINCETON	15"	1280x1024	.28	E050	\$ 440
PRINCETON	15"	1024x768	.28	ULTRA50	\$ 389

MONITORS

PRINCETON	17"	1600x1200	.28	ULTRA17+	\$ 795
PRINCETON	17"	1280x1024	.26	E017	\$ 789
PRINCETON	17"	1280x1024	.28	E070	\$ 689
PRINCETON	17"	1280x1024	.25	E074T	\$ 879
PRINCETON	17"	1600x1200	.26	E075	\$ 909
PRINCETON	17"	1600x1200	.25	E076T	\$ 999
SAMSUNG	15"	1024x768		15GLE	\$ 429
SAMSUNG	15"	1280x1024		15GLI	\$ 479
SAMSUNG	17"	1280x1024		17GLI	\$ 839
SAMSUNG	17"	1600x1200		17GLSI	\$ 989
SAMSUNG	20"	1600x1200		20GLS	\$1619
SONY	15"	1280x1024	.25	100SX	\$ 509
SONY	15"	1280x1024	.25	100SF	\$ 589
SONY	17"	1280x1024	.25	200SX	\$ 889
SONY	17"	1600x1280	.25	200SF	\$1069
SONY	17"	1600x1280	.25	SE2T	\$1299
SONY	20"	1600x1280	.30	300SFT	\$2199
SONY	20"	1600x1280	.25	SE2T	\$2399
VIEWSONIC	14"	1024x768	.28	E641	\$ 299
VIEWSONIC	15"	1280x1024	.28	E655	\$ 479
VIEWSONIC	15"	1024x768	.28	1562A	\$ 399
VIEWSONIC	15"	1280x1024	.27	15GA	\$ 609
VIEWSONIC	15"	1280x1024	.27	15GS	\$ 469
VIEWSONIC	15"	1280x1024	.28	VA656	\$ 519
VIEWSONIC	15"	1280x1024	.28	V655	\$ 479
VIEWSONIC	17"	1280x1024	.28	1769	\$ 749
VIEWSONIC	17"	1280x1024	.26	V773	\$ 759
VIEWSONIC	17"	1600x1280	.26	V775	\$ 839
VIEWSONIC	17"	1280x1024	.27	17GS	\$ 809
VIEWSONIC	17"	1280x1024	.27	17GA	\$ 889
VIEWSONIC	17"	1280x1024	.25	GT770	\$ 899
VIEWSONIC	17"	1600x1200	.25	17PS	\$ 929
VIEWSONIC	17"	1600x1200	.25	PT770	\$ 959
VIEWSONIC	17"	1600x1200	.25	PT775	\$1199
VIEWSONIC	20"	1600x1200	.28	Q100	\$1499
VIEWSONIC	20"	1600x1200	.28	G800	\$1499
VIEWSONIC	21"	1600x1200	.25	G810	\$1849
VIEWSONIC	20"	1600x1200	.30	GT800	\$1599
VIEWSONIC	21"	1600x1200	.25	P810	\$2249
VIEWSONIC	21"	1800x1440	.25	P815	\$2359
VIEWSONIC	21"	1600x1200	.28	PT813	\$2298
VIEWSONIC	14"	FLAT SCREEN		PV140	CALL

NOTE BOOKS

HITACHI	E133DN	P133	D.S.	\$1935
HITACHI	E133TC	P133	TFT	\$2579
HITACHI	E133D	P133	D.S.	\$2069
HITACHI	E133DC	P133	D.S.	\$2079
HITACHI	E133T	P133	TFT	\$2599
HITACHI	M134T	P133	TFT	\$4139
HITACHI	MK133T	P133	TFT	\$4799
HITACHI	MK150T	P150	TFT	\$6039
HITACHI	MK166T	P166	TFT	\$6499
HITACHI	M100D	P100	D.S.	\$2299
HITACHI	C133T	P133	TFT	\$2549

NOTE BOOKS

IBM THINKPAD	365X	P133		\$2259
IBM THINKPAD	365XD	P120	D.S.	\$2399
IBM THINKPAD	365XD	P120	TFT	\$2659
IBM THINKPAD	365XD	P133	TFT	\$2699
IBM THINKPAD	365XD?	P133	TFT	\$3549
IBM THINKPAD	560	P133		\$3429
IBM THINKPAD	760E	P150	TFT	\$6499
IBM THINKPAD	760E	P133	TFT	\$6375
IBM THINKPAD	760ED	P133	TFT	\$6999
IBM THINKPAD	760EL	P120	D.S.	\$2839
IBM THINKPAD	760EL	P133	TFT	\$5799
IBM THINKPAD	760EL?	P133	TFT	\$6799
KTX 880		P100	TFT	\$2399
KTX 880		P133	TFT	\$3399
KTX 880		P133	TFT 12.1	\$3599
KTX 880		P150	TFT 12.1	\$3829
NEC VERSA	2400	P100	D.S.	\$1999
NEC VERSA	2430CD	P133	D.S.	\$2689
NEC VERSA	2530	P133		\$2749
NEC VERSA	2630CD	P133		\$3249
NEC VERSA	6030H	P133		\$4969
NEC VERSA	6030X	P133		\$5239
NEC VERSA	6200MX	P166MMX		\$8349
NEC VERSA	6050NT	P150		\$6999
NEC VERSA	6200NT	P166MMX		\$6999
T.I. EXTENSA	650CDT	P133	TFT	\$3849
T.I.	TM6020	P120	TFT	\$3519
T.I.	TM5200	P120	TFT	\$3599
T.I.	TM6030	P133	TFT	\$3799
T.I.	TM6050	P150	TFT	\$4899
T.I.	TM5300	P133	TFT	\$3599
T.I.	TM6160	P166MMX		\$6419
TOSHIBA	200CDS	P100		\$2099
TOSHIBA	430CDS	P120		\$2599
TOSHIBA	430CDT	P120	TFT	\$3849
TOSHIBA	500CS	P120	D.S.	\$2869
TOSHIBA	510CDT	P133	TFT	\$5599
TOSHIBA	650CT	P133	TFT	\$4779
TOSHIBA	660CDT	P150	TFT	\$6199
TOSHIBA	740CDT	P166MMXTFT		\$8039
TOSHIBA	740CDT	P166MMXTFT		\$8599

TELEVISION

TOSHIBA	CF13F22 OR CF13E23	\$ 240*
TOSHIBA	CF19F22	\$ 310*
TOSHIBA	CF19F30	\$ 340*
TOSHIBA	CF20F40	\$ 380*
TOSHIBA	CF27F30	\$ 540*
TOSHIBA	CF27F50	\$ 580*
TOSHIBA	CF30F40	\$ 875*
TOSHIBA	CF32F40	\$ 935*
TOSHIBA	CF32F50	\$ 999*

*SHIPPING EXTRA

SYSTEM SPECIALS

ASUS HX MOTHEBOARD	EIDE CONTROLLER
256K PIPELINE CACHE	KEYTRONIC 104 KEYBOARD
8 MEG RAM EDO	MITSUMI 8X CD ROM
MITSUMI 1.44 FLOPPY	ATI 3D XPRESSON 2MB EDO
MID TOWER (7 BAYS)	SOUND BLASTER 16 SOUND CARD
200 WATT POWER SUPPLY	QUANTUM 2.5GB HARD DRIVE
FAST I/O CONTROLLER	MS 3 BUTTON MOUSE
	KTX 15" DIGITAL MONITOR

WINDOWS 95
INCLUDED

LOTUS SMARTSUITE 96
WITH FREE
UPGRADE TO
SMARTSUITE 97

\$49

WITH PURCHASE OF SYSTEM

CYRIX P150+	\$1539
CYRIX P166+	\$1579
INTEL 133mhz	\$1599
INTEL 166mhz	\$1839
INTEL 166mhz MMX	\$1999
INTEL 200mhz	\$2139
INTEL 200mhz MMX	\$2239
INTEL 180mhz PRO	\$2199
INTEL 200mhz PRO	\$2399

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL PRICES ARE CASH DISCOUNTED. 4% EXTRA FOR OTHER PAYMENTS.

pm - 5:00 pm

MONITOR SIZES REFER TO THE SIZE OF THE CRT ONLY

Operating systems: A head-to-head...

continued from page 37

Explorer 2.0, an obsolete version, but it is easy to obtain copies of either IE 3.01 or Netscape Navigator.

WINDOWS 3.1—No Internet support, must obtain add-ins.

WINDOWS 95—All necessary software included.

8. What sort of security is available for the OS?

LINUX—Everything. It has full user and file-system security.

MACINTOSH—Apple sells At Ease, a product designed to keep prying eyes away from important files on your Mac. It's targeted at classroom and family environments, but can be defeated relatively easily by someone who knows a bit of Mac programming. There are lots of third-party security-software packages that do a great job at keeping all but the most determined hacker away from your Mac files—probably about the best you can hope for in a microcomputer environment.

OS/2—Basic password. Lots of third-party software. In a non-networked environment, OS/2 is similar to Win95 as you can have the operating system ask you for a password before you can access the machine (screen, keyboard, and mouse are locked out). You can, of course, boot from floppy disk (if the BIOS is set to A:, C: not C:, A:) and then access everything. Note that DOS-bootable disks cannot read HPFS file systems without third-party software. Third-party software includes password protection for folders and icons (i.e., can't run some software

or open folders without a password) and you can prevent others from altering your Desktop.

WINDOWS NT—NT is designed with a great deal of security built in. Users must log in when starting up. The optional NTFS file system provides security down to the individual-file level, as well as excellent disaster-recovery features.

WINDOWS 3.1—Windows for Workgroups (3.1 or 3.11) has user login, which can be easily bypassed. User login is not a feature of the standard Windows 3.1. There is third-party software available that will protect files and lock the PC.

WINDOWS 95—Security is limited to user login that can be easily bypassed. Users can define different personal setups and access them by logging in. Screen savers can be password protected to prevent passers-by from accessing the system while it's unattended, but this is easily defeated by rebooting. There is third-party software available that will protect files and lock the PC.

9. Does your system have complete power management for notebook computers?

LINUX—No.

MACINTOSH—Yes. All Macs (laptop and desktop models) now come with technology that puts them to "sleep" during periods of inactivity, saving power and excess computer use.

OS/2—Full support.

WINDOWS NT—No (this has been promised for NT 5.0). Some individual notebook manufacturers are selling customized versions of NT, with power-management support for their individual models.

WINDOWS 3.1—Yes, with additional Advanced Power Management drivers.

WINDOWS 95—Yes.

10. OS prices for individual client versions for desktop and/or upgrades.

LINUX—Available for free on the Net! Distribution on CD-ROM can cost \$50.

MACINTOSH—The Mac OS comes preloaded with every Mac. The estimated retail price of the Mac OS 7.6 in Canada is \$129 for the CD-ROM version and \$159 for the floppy version. Current customers using 7.5.x can upgrade to the new version for \$99 for the CD-ROM version and \$129 for the floppy version. You can call 1-800-361-6075 and you'll have to have proof of ownership.

If you bought a qualifying Macintosh or Mac OS-compatible computer after November 1, 1996, and don't have the new software installed, you can upgrade for a special price of US\$9.95 (plus shipping and handling). For more information, visit Apple's special upgrade site at <http://www.macos.apple.com/macos/releases/fulfillment.com> or by calling the Mac OS upgrade line at 1-800-335-9258.

OS/2—Upgrade for about \$150. Full version \$190.

WINDOWS NT—NT Workstation: \$390 (\$190 upgrade from earlier NT version). NT Server: \$1,008 with 5-client license; \$1,399 with 10-client license (upgrades from earlier versions are about half those prices); \$45 per additional client.

WINDOWS 3.1—If you can find it, about \$179 (needs MS-DOS).

WINDOWS 95—Upgrade for about \$149. Full version for about \$239.

11. What's being planned for your OS?

LINUX—Linux is always being updated. It is jokingly referred to as the "patch of the week club." There are always new drivers. Improved Plug and Play.

MACINTOSH—Apple has a two-pronged strategy to move its customer base into a new OS. It will continue, in six-month intervals, an incremental upgrade with its current OS. In less than a year, Apple will also start moving to a new operating system, code-named Rhapsody. Apple says its developers will see preliminary versions of this new OS in a few months.

OS/2—Warp 4.1 due soon, 5.0 next year. More network stuff, enhanced Java, Web browser interface, new file system (JFS).

WINDOWS NT—NT 5.0 is currently beginning beta-testing. Biggest change for home users would be implementation of Windows Driver Model, merging NT and Win95 drivers, along with additional Plug and Play support. This version will add the next version of Internet Explorer (4.0) as an optional desktop (so-called Active Desktop).

WINDOWS 3.1—Windows 3.1 is dead as far as Microsoft is concerned.

WINDOWS 95—The upgrade path will eventually merge code bases with NT, although Microsoft claims there will always be the two flavours, at least in the foreseeable future. The interface will change to a browser-based look and feel, with hypertext links, the file system to one that handles large disk drives better (the current FAT disk format wastes a lot of space on big drives). ♦

MICHAEL'S COMPUTER SHOP

639 East 15th Ave. (15th & Fraser) Ph: 873-0538

MON - SAT 11-5 PM

• Computer Hardware at Liquidation Prices •

Complete Multimedia Systems

P100	P133	P166
\$950	\$1300	\$1580

* all systems come with 14" SVGA monitor

486 Systems Starting from \$450

Modems	33.6 win modem voice/fax	\$75
	33.6 voice/fax	\$105
Sound Cards	16 Bit PNP/3D	\$32
Video	1 MB PCI Video Cards	\$29
Monitors	Magnavox 14" NI.28DPI	\$260
Floppy Drives	3.5" HDD	\$25
Keyboards	105 key WIN	\$18
Mouse	2 BTN Serial	\$9
	3 BTN PS/2 Logitech	\$25
540 MB		\$148
4x CDROM		\$85

RENT A 486 SYSTEM FOR \$150/MONTH

A light in the dark.

OK...so what's all this buzz about the Internet?

Newspapers, Radio, TV, all your friends ... everyone is talking about the excitement of the Internet and you feel like the last person on earth who doesn't understand what it's all about. Like any intelligent individual, you don't want to rush into anything without some sort of basic knowledge, but you're asking yourself "where do I start?". Let us assure you that you're not alone. That's exactly why we've created, by popular demand, our free "Introduction to the Internet" seminars. Our evening course is an overview of the Net, designed to give you the framework you will need to make an educated decision about going on-line. The best part? **ITS FREE!** That's right, absolutely free with no obligations, no sales pitch and no pressure (you may even have to ask us for a brochure!)

Of course, if you already know what you are doing and just want to get hooked up, ask about our Test Drive. If we've peaked your interest, call Imaginet today at 662-8332 to find out more...but hurry because these classes are kept small and fill up quickly!



imagi.net
www.imagi.net INTERNET ACCESS



PC CONNECTIONS

A Division of MPC Technologies Inc.

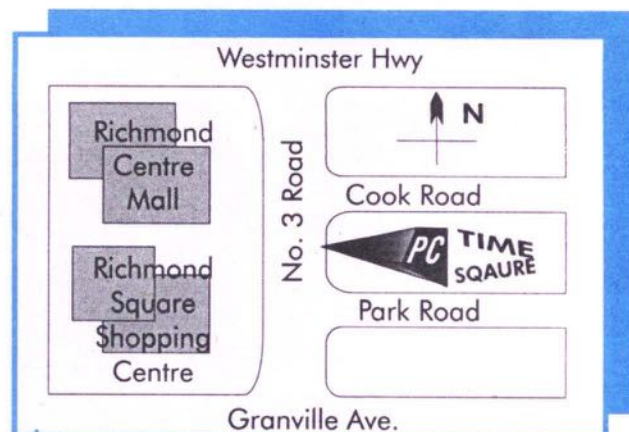
6600 No.3 Road, Richmond BC V6Y 2C2 (In TIME SQUARE CENTRE)

Tel (604)270-4883 Fax (604)270-3812



VISIT US!

MON - SATURDAY 10AM - 6PM
SUNDAY 1PM - 6PM



AT PC CONNECTIONS We specialize in **HIGH PERFORMANCE** System, **POWERFUL MULTIMEDIA** and **ADVANCED COMMUNICATIONS** FEATURES THAT IS BEYOND INTERNET. YOU CAN HAVE ALL THIS AT A SAVINGS TOO!

PC CONNECTIONS is Design from Your Point Of View which is **USER FRIENDLY**. Just a click here and there and you are Surfing the Net.

PC CONNECTIONS Multimedia System delivers **SHARP BLAZING GRAPHICS** and front row **SURROUND SOUND. VIRTUAL 3D GRAPHIC** High Resolution, SMOOTH ACTION with SHARP DETAIL TEXTURE QUALITY and special effects that will blow you away. All our system comes w/2 yrs warranty (PARTS & LABOUR)



MISSION STATEMENT

We at PC CONNECTIONS believe in providing you with personalized attention with the upmost respect and understanding to meet your needs & to cater to your lifestyle. Your satisfaction is our fundamental principle of our business.

LEASE TO OWN

Once again PC Connection makes it easy to own your computer with your choice of 2 years & 3 years lease to own with only \$10 buy back and you can pay it off early with no penalty!

SPECIAL OF THE MONTH

MONITOR: SVGA 14" \$249
MODEM: USR 33.6 Data/Fax \$145
(W/Voice Add \$20)

MULTIMEDIA/WORK STATION

- Intel Pentium P133 MHz Processor
- 512K Pipeline burst cache
- 16MB EDO RAM
- Hard Drive 1.2G
- Video 2MB DRAM-PCI
- Tower Case 15" - MID, 230W P/S
- Keyboard 104 WIN 95
- Mouse Logited w/PAD
- Floppy Drive
- CD Rom 8X
- 16-Bit Stereo w/3D Sound
- Speakers 60W w/AMP
- Monitor & Windows 95 not included
- 2 years parts & labor warranty

Only \$1,180
LEASE \$42 for 36mth

MULTIMEDIA TV / HOME SECURITY WITH REMOTE/FAMILY HOME STATION

- Intel Pentium P166 Processor
- 256K Pipeline Burst Cable
- 16MB EDO RAM
- Hard Drive 1.6G
- ATI 3D Xpression 4MB/ATI TV Tuner
- Tower Case 15" MID, 230W P/S
- Keyboard 104 WIN 95/MS Mouse
- CD Rom 8x
- Sound Blaster 16 PnP
- Speakers 120W w/Microphone
- Sony Monitor 15" 100SF SVGA
- USR 33.6 int. FAX/MODEM
- X-10 Starter Kit
- MS Windows 95
- MS Encarta 97 / MS Works & Money / MS Golf and Tones of Games!

Only \$3,280
LEASE \$114 for 36mth

MULTIMEDIA/CONFERENCE VIDEO TELEPHONE/BUSINESS STATION

- Intel Pentium P166 Processor
- 256K Pipeline Burst Cable
- 16MB EDO RAM
- Hard Drive 1.6G
- ATI Mach 64 2MB PCI 64 Bit Accelerator
- Tower Case 15" MID, 230W P/S
- Keyboard 104 WIN 95
- Microsoft Intelligent Mouse
- Floppy Drive
- CD Rom 8x
- Sound Blaster 16 PnP
- Speakers 120W & Microphone
- Monitor 15" By Princeton SVGA
- USR Video Modem/USR Video Camera
- MS Windows 95

Only \$2,900
LEASE \$100 for 36mth

MULTIMEDIA MMX TECHNOLOGY/ GAME STATION PLUS!

- Intel Pentium P166MMX Processor
- Asus VX with 512K PBC
- 32 MB EDO RAM
- Hard Drive 2.1G
- ATI 3D Xpression 4MB PCI
- Diamond (add on) 3D Monster 4MB
- Tower Case 15" MID, 230W P/S
- Keyboard 104 WIN 95/ MW Mouse
- CD Rom 12x
- Sound Blaster 32 PnP
- Speakers Actec Lansing ACS45
- Monitor 17" by Princeton .26DPI
- USR 33.6 Modem Fax/Data/Voice
- MS Window 95 W/Tones of Games
- Joystick & Game Pad MS Sideminder 3D

Only \$4,380
LEASE \$152 for 36mth

Call us for more DETAILS

A Few Words From our Customers



AVION TRAVEL LTD.
"...If you are looking for SOLUTIONS for you business and SAVINGS choose PC CONNECTIONS

WALTER WU
TRAVEL



"After going to all the computer stores we DECIDED on PC CONNECTIONS. They answered all our questions and UNDERSTOOD our needs"

PATTY & KELLY HADDEN
FAMILY USER
VANCOUVER, B.C.



CENTRAL AGENCIES LTD
"...Reliable and Dependable after Sales service...."

DENNIS S. MACNEILL
(PRESIDENT)
RICHMOND, B.C.

MDG

FULLY LOADED P-166 ONLY \$ 675

MDG just opened a branch in your home
get exactly the same quote as you would
from our stores for your
custom configuration

This changes everything
computer retail will never
be the same again.
visit us at : WWW.MDG.CA

NO PST, NO PST, NO PST

Same day shipping
Pre-burned and tested units
ready to go any time

It is impossible to get better
value for your money. We can
save you hundreds of dollars.

Deal with the best sales
and technical support force
in the industry

INCREDIBLE LEASING OPTIONS
NO MONEY DOWN

SPECIAL ARRANGEMENTS
POSSIBLE WITH VAR'S
CONSULTANTS AND
CORPORATE CLIENTS
Call: (905) 712-9464

- Premium quality Triton mother board , with 256 cache up to 1 MB, 4 PCI and 4 ISA slots, flash ROM BIOS, energy star compliant Enhanced IDE (up to 4 hard drives), 16550 serial ports, fast bi-directional parallel port, EDO memory support
- 1.2 GB hard drive , Enhanced IDE , several times higher transfer rate than regular IDE. Mode 4
- T.I. 8 MB EDO RAM , 72 pin. The best quality memory
- 1.44 MB floppy drive (Panasonic)
- 64 bit 1 MB SVGA PCI video card , ATI or Matrox available.
- Elegant mini tower case 250 W power supply
- 104 win 95 Enhanced keyboard

In stock ready to go

- Premium quality TRITON III Vx chip set, mother board , with 256 pipeline burst cache 3 PCI and 4 ISA slots, flash ROM BIOS, energy star compliant Enhanced IDE (up to 4 hard drives), 16550 serial ports, fast bi-directional parallel port, EDO memory support , Universal serial bus, Dimm RAM, upgradable to 200 Mhz, PCI ver 2.1 (WOW)
- 1.6 GB hard drive , Enhanced IDE , several times higher transfer rate than regular IDE Mode 4
- T.I. 16 MB EDO RAM , 72 pin. The best quality memory
- 1.44 MB floppy drive (Panasonic)
- ATI MACH 64 1 MB up to 2 MB SVGA PCI video card
- Elegant mini tower case 250 W power supply
- 104 win 95 Enhanced keyboard

Full multimedia upgrade

intel mmx technology now shipping !!

PRICE IS 3% CASH DISCOUNTED. CREDIT CARDS, P. O.'S ADD 3%. ON SPOT LEASING AVAILABLE, APPROVAL IN MINUTES. PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Free upgrade to
16 MB EDO
This week only

Free upgrade to 32 MB EDO
or \$60 cash back
This week only

P-150\$ 595

P-166\$ 675

P-200\$ 835

no pst , gst only

pentium \$ 865
100 or \$31.70/mo

pentium \$ 898
120 or \$32.65/mo

pentium \$ 945
133 or \$34.23/mo

pentium \$ 1125
166 or \$40.27/mo

pentium \$ 1345
200 or \$47.67/mo

no pst , gst only

**Pentium Pro Series
For Top Guns Only**

- pentium pro motherboard
- 64 MB EDO RAM
- 2.0 GB EIDE Hard Drive
- ATI mach 64 2 MB DRAM
- Keytronic 104 keyboard
- 512 kb pipeline cache
- Mid tower deluxe 250W
- 12x CD ROM

150 MHz \$1495 or \$52.56/mo
180 MHz \$1795 or \$62.78/mo
200 MHz \$1995 or \$69.49/mo
gst only, no pst

THE DREAM MACHINE

mmx option add \$ 150

133 MHz \$1975 or 68.82/mo

166 MHz \$2175 or 75.54/mo

200 MHz \$2425 or 83.93/mo

gst only, no pst

- Intel Triton III (vx) MB with 512 kb pipeline burst cache module, SDRAM, Concurrent PCI, Universal serial bus, improved EDO timing, two sd ram slots
- 32 MB EDO RAM (60ns)
- 2.1 Gb Western digital 9ms hard drive
- Matrox mystique 4 MB WRAM
- 1.44 floppy drive

- 104 win 95i keyboard
- Mid tower deluxe 250W
- SONY 15" .25 monitor
- 12x ide CD ROM
- AWE32 Creative Labs card
- Microsoft mouse
- Sony 17" , add \$445

DREAM MACHINE SCSI OPTION: adaptec 2940 ultra wide
+ 2 gb ultra wide Seagate hard drive only \$ 999

SCSI 200 MHz

- intel pentium 200 MHz CPU
- Intel Triton III (VX) Motherboard
- 512 kb pipeline burst cache module
- 64 MB EDO RAM (60ns)
- 4 GB SCSI ultra wide hard drive
- Adaptec 2940 SCSI ultra wide
- Matrox millenium 4 MB WRAM
- 1.44 floppy drive
- Microsoft natural keyboard
- Full tower deluxe 250W
- SONY 17" trinitron .25 monitor
- AWE32 Creative Labs card
- 8X SCSI CD-ROM
- Microsoft mouse
- Amplified speakers

\$3995
mmx
available

Nothing less than perfection is acceptable for us.
We measure our success by customers satisfaction
not by profits. Talk to us and experience the difference
of dealing with people who care.

Our computer vision systems take heavy beating on production lines. Only MDG machines can stand
the test of time and work trouble free for years in dirt and smoke. Lawrence Ho VP ASPRO Technologies

Any small business looking for a computer, will get the best value for there money from MDG
Louis Al Jaar , Business development adviser , Federal business development bank

MDG

MISSISSAUGA
5659 McAdam Rd., L4Z 1N9

tel : 800-829-4017
or 905-712-4151
fax: 905-712-9325

Corporate and Government orders
HOTLINE: tel: 905-712-9496 fax: 905-712-0755
Mon. - Fri. 9:00am to 5:30 pm S.E.T.

Hours: Monday - Friday 9 - 7
Saturday 10-6

Adobe Photoshop a joy year-round

• • By BRANDI JASMINE • •

All I wanted for Christmas was *Adobe Photoshop 4.0*. When it finally arrived, I was not disappointed: the new version of *Photoshop* clearly is "the world-standard photo design and production tool".

Version 4.0 builds on a solid foundation of past triumphs from Adobe. The program is still intuitive and easy to grasp, despite the wealth of tools placed in front of new users. More experienced users will find that the interface has changed little, but the assortment of toys for "the camera for your mind" have multiplied. *Photoshop* can be either a serious design tool for the committed artist, or an expensive toy for the playful dabbler, but its appeal reaches across the spectrum.

New adjustment layers are one major enhancement in version 4.0. They allow users to apply colour corrections without permanently changing the original. Commands such as levels, curves, colour balance, brightness, and contrast can be changed within the layers, and each will affect the layers below. Adjustment layers can be hidden or discarded as well as moved up or down to affect different layers. It's now a simple one-step operation to flatten layers.

Spinning Web with ease

While *Photoshop* was originally designed

with the desktop designer in mind, it is rapidly carving out a niche with Web-based artists and designers. A series of tools can now automate or simplify steps that must be repeated, as in the case of editing images to be prepared for Web-based animation (animated GIFs).

Photoshop does not offer a compiler for animated GIF production in version 4.0, however. Instead, its action macros record a sequence of editing steps as an Action list. The macro can be applied to another image or a batch of files, which can be exported for use in animation programs. In addition, Action lists can be altered with drag-and-drop edits. *Photoshop's* layering protocol simplifies the job of editing frame-by-frame motion, and switching background images.

Version 4.0 adds other features that increase productivity, such as streamlined image retouching, file conversion, filter operations, and batch processing of multiple images. *Photoshop 4.0* doubles the number of artistic filters offered in the program. There are now 95 built-in filters and creative effects.

The new version will also enhance the ability to move across Adobe's proprietary graphics applications, such as *Illustrator* and *PageMaker*. The new version expands common terminology, shortcut keys, menu structure, and the tab palette design shared among Adobe products.

In addition, new file-format support in *Photoshop 4.0* provides users with a broad range of Web file formats, including Portable Network Graphics (PNG), progressive Joint Photographic Experts Group (JPEG), and the Adobe Portable Document Format (PDF). There is a built-in GIF-89a export filter that Webmasters can use to create "invisible" backgrounds for Web-page buttons and graphics. The palette for creating invisible backgrounds permits the artist to define any number of colours as "invisible," thus leading to greater clarity with some borders.

Adobe Photoshop version 4.0 ships on CD-ROM and includes an interactive tutorial CD-ROM, stock photography, sample plug-ins, a digital gallery, and Adobe tryout software. Registered owners of any previous full version can purchase version 4.0 upgrade for \$149. Upgrades from *Photoshop LE* to the full version 4.0 are available for \$199 (prices are US dollars).

The version 4.0 image-editing upgrade supports the Windows 3.1, Windows 95, Windows NT, Macintosh, and Power Macintosh platforms.

There is one drawback to this powerhouse of



Lilly photographed with Kodak DC-20

a program: it requires a powerhouse computer. Minimum requirements for the Windows version are a 486 with 16 MB RAM and 25 MB available hard-drive space. A Pentium with 32 MB is recommended.

Photoshop is a serious investment for a dedicated artist, and, as we all know, an artist is only as good as his or her tools. ♦

Brandi Jasmine can be reached at jasmine@direct.com

Photoshop 4.0, from Adobe. Windows or Mac CD-ROM. \$895. For more information, visit <http://www.adobe.com/>

Photoshop plug-ins add fun

By BRANDI JASMINE

When you hear the word "plug-ins," you probably think of Internet browser add-ons such as Shockwave or Java, but plug-ins come for a variety of other programs as well. "Plug-ins" can be made by the manufacturer, but are most often found in the form of unique filters created by individual users. Image-software plug-ins can help you instantly create buttons, or background fills, and while you have to have some imagination, it doesn't take much skill to produce really stunning images once you have a good selection of filters to play with.

If you have *Photoshop 3.0* or lower, your first stop should be Adobe's Web site. Here, you can pick up a conversion program to create transparent GIFs for your Web site, platform-independent non-dithering palettes, and updates to the program. The site is busy and suffers network-crawl, so be patient if you want the toys.

Many of the Plug-ins created for *Photoshop* also work in the shareware alternative, *Paintshop Pro*. You can download PSP at CNET's Shareware.Com or on TUCOWS as well. This \$69 program functions much like *Photoshop*, but at a value price. Some also work in *Micrographix Publisher* and *Corel Photopaint*, and there are special plug-ins for *Acrobat*.

Fun Factory

My favorite collection of filters is located on the Filter Factory Compendium Site. Tops on the Webmaster's list will be round- and square-button makers, as well as filters to create kalei-

doscope patterns, clouds, metallic filters, crystal balls, tiles, mosaics, and more. Filter Factory is a program that helps you create your own filters for *Photoshop*.

Other places to try include The *Photoshop* Sites page, Alien Skin Software, and PC Resources for *Photoshop*. ♦

Mac *Photoshop* users can pick up plug-ins and filters at the Plugpage, including PhotoGIF 2.0, a File Format plug-in for Mac *Photoshop 3.x* that includes full support for creating and editing GIF animations.



Adobe
<http://www.adobe.com/>
 Paintshop Pro
<http://www.jasc.com/>
 CNET's Shareware.Com
<http://www.shareware.com/>
 TUCOWS
<http://www.tucows.com/>
 Acrobat plug-ins
<http://www.xman.com/>
 The Filter Factory Compendium Site
<http://www.fns.net/~almateus/ffc.htm>
 The Photoshop Sites page
<http://www.fns.net/~almateus/photos.htm>
 Alien Skin Software
<http://www.eskimo.com/~bpentium/skin.html>
 PC Resources for Photoshop
<http://www.netins.net/showcase/wolf359/adobepec.htm>

WordPerfect for Mac: The MOR word processor?

• • By LEE LESTER • •

In the days of DOS, *WordPerfect* ruled the world. When Windows roared in, however, *WP* went into a tailspin from which, under the aegis of new owner Corel, it has only just started to emerge.

Curiously, at the same time, *Microsoft Word*, which had held the pole position in the Macintosh world, began to slide. The reason was simple. Microsoft tried to make the Windows and Mac manifestations of its word processor as alike as possible. Offended Macheads didn't want to be like those Windows types, though. For them, there was a better way of doing things. They also just hated the huge amount of disk space and memory occupied by Bill Gates's baby. Many complained that *Word* was s-l-o-w.

When I compared the two products, overall I preferred *WP*. Due to *Word's* links with its *Office* suite companions such as *Excel* and *PowerPoint*, however, and because most of the publications I write for demanded *Word* files (plus some annoying minor glitches in *WP*), I was led to largely remain with the Microsoft product.

Minor changes

Soon after Corel bought *WP* from Novell, it released its version of *WP* for the Mac. Other than a new splash screen shown when the program is launched, little is different from its predecessor.

Novell WP 3.5 was the first Mac word processor to feature the ability to transform documents into HTML format for publication on the World Wide Web or to change HTML documents into word-processor format. It was also the first to include Apple's MacinTalk technology to have all or part of a document spoken by the computer.

Bookmarks linking parts of a document to other places in the same document or in different documents were another neat feature. They can also be linked to WWW addresses. Yet another first was the inclusion of AppleGuide, which leads help seekers through the tasks they wish to accomplish.

Then there was "Make it Fit," which enables a user to stipulate the number of pages a document

should occupy with the computer formatting it to do so, and Easy Envelope, which brings an envelope on screen to make placing an address a cinch. As well, *WP's* Grammatik grammar checker, is still the best around.

Kitchen-sink approach

The latest version (also called 3.5, just to make things clear) retains those features. Corel, in its typical fashion, however, has added a raft of clip-art images—5,400—plus 200 photos and 150 TrueType fonts. Its spellchecker features on-the-fly corrections. Also in the package is *MasterJuggler Pro* to manage fonts, applications, sounds, and function keys.

While *WP* comes with a US English dictionary and thesaurus, UK English, German, French, and Spanish versions are freely available on Corel's WWW site.

One oddity I encountered in the Corel version was that adjacent paragraphs were often highlighted in addition to the one chosen, although only the one selected responded to the operational command. Corel says a downloadable fix is available on its Web site. Another curiosity is that *WP* doesn't open documents from as many sources as *Word*.

WP 3.5 is fast and its host of features makes it a prime contender as the word processor of choice for the Mac. It is due to become even better in the spring, when a new version will leverage OpenDoc technology, enabling users to link the power of their processor to spreadsheeting, charting, Web browsing and authoring, and other specialized applications.

WordPerfect doesn't have the sheer power of, say *NisusWriter*. Nor does it have the simplicity of *WorldWrite*. But anyone needing a standalone word processor, without an overwhelming demand for *Word*, (e.g., those who do not need *Microsoft Office* suite links, or have a shortage of disk drive space), should give *WP* a close onceover. ♦

WordPerfect for Macintosh version 3.5, from Corel. \$239 (\$175 upgrade).

A tale of two office suites: Microsoft Office 97 and Lotus SmartSuite97

Perhaps the single most common application on computers today is an office suite—a collection of common business programs from a single company. By bundling a word processor, a spreadsheet, a presentation-graphics program, and perhaps a database, companies hope to lock customers into sticking with a single product line.

• • By ALAN ZISMAN • •

There are three contenders: Microsoft has built up a comfortable lead in suite sales with its *Microsoft Office*, holding an estimated 85 per cent of the current market. Lotus's *SmartSuite* has about 5 per cent, while suites featuring *WordPerfect* and other products initially developed by Borland (*Quattro Pro* spreadsheet and *Paradox* database), now owned by Ottawa's Corel, have what's left. And it's a big market—some estimates suggest that *Office* brings in \$2 billion in annual revenues to Microsoft.

January brought a new version of *Microsoft Office*, in a number of versions, while *Lotus SmartSuite 97* has just become available. Let's take a look at the latest contenders.

They look alike, they act alike...

The stiff competition for office-suite customers has produced products with a lot of similarities. Both suites are for Windows 95 and NT only—users of other operating systems and computers are left out in the cold, having to make do with older versions. Mac users will get an equivalent version of *Microsoft Office*—eventually. And despite Lotus's IBM connection, the new release of *Lotus SmartSuite for OS/2*, is more comparable to last year's *SmartSuite 96*.

Both suites are big products—requiring a powerful processor, lots of RAM, and lots of hard-drive space. Think Pentium and 16 MB of RAM as the minimum acceptable platform.

Both products add Internet features, and support for workgroups—teams working on

a common project, and as a result, sharing documents. Both offer an increasingly standardized interface across all suite members, and a common macro language, Visual Basic for Applications in *Microsoft Office*, and LotusScript in *SmartSuite 97*.

Along with the Corel products, each increasingly has "borrowed" the best ideas from its competitors. The word processors all feature real-time spell checking, my favourite feature of this generation of software, where spelling errors are highlighted as you type (a feature that originated with *Lotus Word Pro*). The spreadsheets all offer 3D worksheets (from *Lotus 1-2-3 version 3*), with tabs to easily switch from page to page (from *Quattro Pro*).

SmartSuite for teamwork

Even identical twins have their own personalities, however.

Despite its low market share, *SmartSuite 97* has a number of strong features. *WordPro*, its word processor, offers easier page-layout features than any of its competitors. This version even allows text to flow between frames—like a desktop-publishing program. And this version has been optimized, improving the performance of earlier versions.

1-2-3, the venerable spreadsheet, has been modernized as well, and finally has been upgraded to a fully 32-bit version. There's a nice new AutoTotal feature—just type the word "Total" in a cell, and a sum formula will be automatically created—and it's generally the right one, too.

Lotus Freelance remains perhaps the easiest presentation graphics program in any of the suites, while still offering a range of power features. Its range of SmartMasters makes it simple to create an attractive slideshow.

Unlike the competition from Microsoft and Corel, there is only one version of Lotus's suite—users don't pay extra to get a database. *Approach* is also designed for ease of use, but in this case trades some potential power to be the friendliest database in its class. Still, it's probably powerful enough for most users, and is well linked to 1-2-3 and makes an attractive front-end for large databases housed across a network or on a mainframe. Also attractive and easy to use is the *Organizer* personal information manager, with its intuitive "day-timer" look.

All products share an Infobox feature, a quick and easy way to get important information via a small, tabbed, floating dialogue box that conveniently holds the most used properties for whatever you're working on.

Lotus has found the Internet. All applications can save in HTML (Web page) format, and can save to an Internet FTP or Web site. But perhaps more important to Lotus are links to the company's *Notes*—a powerful, network-based environment for sharing information and collaborating on projects. All applications are designed to work well with *Notes*, and offer a wealth of functions to support workgroup computing, such as revision control.

SmartSuite has some attractive individual applications and is a strong choice for users on *Notes* networks, or working on team projects. A fully functional, 45-day time-limited trial version is available for free from Lotus; contact them at <http://www.lotus.com/>

Microsoft Office: The one to beat

Because of its dominant role in office-suite sales, a new version of *Microsoft Office* is big news. *Office 97* effectively defines this generation of suite software. It comes in a variety of versions, including a standard version, a professional version that adds the *Access* database, a developer version, and a new small-business version that drops the *PowerPoint* presentation program in favour of a copy of the *Publisher 97* desktop-publishing pro-

gram. All versions also feature the *Word* word processor and the *Excel* spreadsheet.

There are two major features that will be new to long-time *Microsoft Office* users.

Office Assistant is a small, on-screen box featuring a cartoon character (by default, a paper clip, but optionally an Einstein clone, or other characters). It keeps an eye on your work, and offers tips when it thinks appropriate. I generally find such features more annoying than useful, and tend to turn them off. I have been finding OA's paperclip surprisingly likable, however—I think I'll keep it around.

In usability tests, Microsoft found that users often were unaware of potentially useful features in the software that they already owned, such as *Word's* business-letter wizard. The *Office Assistant* notices when you start to type a letter, offering to run the wizard. Score a point for finally making full-functioned software more approachable.

The other big addition is *Outlook*—a much more powerful personal information manager than the *Schedule Plus* program included in older versions. Adding contact-management and even project-management features, it could serve as the centrepiece on some users' computers—they can attach shortcuts to documents to the calendar or address book, keeping contacts, appointments, and even documents connected and easily accessed. It even does e-mail.

continued on page 51

info box

Office 97, from Microsoft. Windows 95 and NT CD-ROM. Standard: \$689 (\$249 upgrade); Professional: \$829 (\$434 upgrade).

For more information, visit <http://www.microsoft.com/>

SmartSuite97, from Lotus. Windows 95 and NT CD-ROM. \$599 (\$225 upgrade).

For more information, visit <http://www.lotus.com/>

JRS COMPUTERS INC.

OCU Guard Screen Filter
- Superior Protection for your Eyes
Guard/Guard Std. 500
(Hangers, Single-sided Coating)

OC-1	9"-10" Monitor	\$58.00
OC-4	12"-13" Monitor	\$58.00
OC-5	14"-15" Monitor	\$60.00
OC-7	17"-18" Monitor	\$95.00
OC-9	19"-21" Monitor	\$145.00

Glare/Guard Maximum Plus
(Wrap Around, Double-sided Coating)

C-90	12"-13" Monitor	\$129.00
C-91	13"-15" Monitor	\$129.00
C-92	16"-17" Monitor	\$177.00
C-93	19"-21" Monitor	\$265.00

Glare/Guard Privacy 1800 (Wrap Around)

PR1-5	14"-15" Monitor	\$160.00
-------	-----------------	----------

Check the quality & service. Call us for a complete quote on system upgrades, parts and products. We will custom make the system to fit your budget and need.

Perfect 386/486 Upgrade Solution:

Upgrade with 486 PCI Motherboard
486DX4-100 \$179

Upgrade with 586 PCI Motherboard
with 16MB EDO RAM

AMD K5-100 \$365

Pentium 120 \$420

Free Installation

CHECK US OUT!

Fully Loaded System:

AMD K5-100	\$ 1728
AMD K5-133	\$ 1788
Pentium® 120	\$ 1798
Pentium® 133	\$ 1850
Pentium® 150	\$ 1920
Pentium® 166	\$ 2050
Pentium® 166MMX	\$ 2180
Pentium® 200	\$ 2298
Cx6x86 150+	\$ 1778
Cx6x86 166+	\$ 1840

System Configuration:

- Intel Triton II VX Chipset, PNP BIOS
- 256K Pipeline Burst Cache
- 16 MB EDO DRAM, 60ns
- 1.44MB FDD, 1.2GB EIDE HDD, M-4
- 53 VIRGE 3D w/2MB EDO, MPEG
- 15" Daytek OSD N/I, L/R, D/C, Mon.
- 19" Mid-Tower Case with 230W PS
- Fujitsu Win95 Keyboard
- Logitech 3 Buttons Mouse
- 8X Speed CD ROM Drive
- Sound Blaster 16, 60W Spks
- 33.6K Int. Voice Fax Modem
- Windows 95 CD Full, SR2 (2 CDs)

Leasing Available



**GOVT. & CORP.
P.O.
WELCOME**

Intel Pentium Pro 180MHz \$ 2998

- Intel Venus ATX Motherboard
- 32 MB EDO DRAM, 60ns
- 1.44MB FDD, 2.1GB EIDE HDD, M-4
- ATI 3D Xpression+ PCI w/ 2MB DRAM
- 15" Daytek OSD N/I, L/R, D/C Monitor
- 17" Mid-Tower ATX Case with 230W.
- Fujitsu Win 95 Keyboard
- Logitech 3 Buttons Mouse
- 8X Speed CD ROM Drive
- Sound Blaster 32 PNP, 60W Amp. Spks
- USR 33.6/56K Int. Voice Fax Modem
- Windows 95 CD Full, SR2 (2 CDs)

Prices subject to change without notice. Please call for the current prices.

JRS COMPUTERS INC. Suite 288, 8136 Park Road, Richmond, B.C. V6Y 1T1 Tel: (604) 273-8852 Fax/Tel: (604) 273-3186 Mon. - Fri.: 10:30 - 6:30 Sat.: 12:00 - 5:00

• • Compiled by KEVIN LINFIELD • •

MicroNet claims that it is the first company to offer 16X-speed CD-ROM drives for Macintosh and PC computer systems. The ADVCE16E provides high-speed access times of 150 ms, data transfer rates of up to 2.4 MB, and has a suggested price of US\$275. Contact: <http://www.micronet.com/> or (714) 453-6100.

Say what?

Transparent Language Inc have released *Easy Translator for Win-dows*, a versatile translation software program that quickly translates text, e-mail, and Web pages in Spanish, French, and German to and from English. It has a suggested price of US\$49. Contact: 1-800-752-1767 or <http://www.transparent.com/>

See Bill Gates 365 times a year

Vision X Software has recently released the "365 Days of The Secret Diary of Bill Gates," computer calendar, which features the personal journal of the "richest most powerful man in the world." Download a free copy of this or other daily calendars from <http://www.visionx.com/>

CanTax final version appears

CanTax 1997 Final Version is now shipping. This multimedia CD-ROM includes tax tips and step-by-step guidance on completing your tax return. MSRP is \$36.95, or free to purchasers of the Early Filing Edition or Tax Tutor. Contact: <http://www.cantax.com/> or 1-888-317-9999.

Keeping secrets

Designed to prevent unauthorized parties from tapping into a user's "secret stuff," *Norton Secret Stuff* allows users to send

secure files to anyone, anywhere. Available for Windows 3.x, 95 and NT, check it out at



<http://www.symantec.com/nss/>



Be free

Miller Freeman Books has released *FreeDOS Kernel: An MS-DOS Emulator for Platform Independence & Embedded Systems Development*. The book and companion disk include the full source code for DOS-C, a fully functional 80X86 kernel, and support files. Designed as an educational tool, it has a MSRP of US\$29.95. ISBN 0-87930-436-7. Ask for it at your local bookstore, or call R&D Books at (913) 841-1631.

Sight solutions

Vision-care specialists Eye2Eye Inc. have introduced *Solutions In Sight*, the first comprehensive visual ergonomic software and remedial treatment program alleviating Computer Vision Syndrome. *Solutions In Sight* maximizes a computer user's visual com-

fort by utilizing the Color Optimizer software (for better screen colour choices), Vision Break software (to prompt users to

take a visual break), and more. Contact: <http://www.eyeye.com/> or 1-888-EYE-2-EYE.

New Mac Pagemaker

Adobe has released *Pagemaker 6.5* for the Macintosh and Power Macintosh comput-

ers. Featuring new tools for online and print publishing, MSRP is US\$895, but registered users of any version can upgrade for only US\$99. Contact: <http://www.adobe.com/> or (206) 470-7268 or 1-800-42-ADOBE.

continued on page 47

MDI Internet Inc.

Personal Accounts

*Unrestricted Access

- \$16.04/Monthly (12 Month Membership)
- \$16.99/Monthly (6 Month Membership)
- \$17.93/Monthly (3 Month Membership)
- \$18.88/Monthly (1 Month Membership)

* Please call us for more information

Business Accounts

- \$19.88/Monthly (www.mdi.ca/yourname)
- \$38.88/Monthly (www.yourname.com)
- Web Design & Marketing

Professional Internet Services

provided to you at affordable prices

MDI Internet Inc.

**We also do Global Internet Roaming
Suite 700 - 1080 Howe Street, Vancouver, Canada V6Z 2T1

Tel: (604) 602-9168 CALL TODAY!

E-Mail: info@mdi.ca <http://www.mdi.ca>

THE
BEST

JOIN
NOW

every dog has its day.

Get ready Vancouver. Yours is May 1st.

www.dogday.cyberus.ca

Tricera



Computer

EPSON
Color Printer
Warranty Repair Center
& Parts Sales

Looking for a Scanner?

EPSON ES1000C Scanner

Lowest priced scanner able to
output high quality images. **\$820**
400 DPI optical - 30 bit

EPSON Expression 636

Top rated scanner...hardware **\$1295**
enhanced image for the
best OCR results.
600 DPI optical - 36 bit

Polaroid SprintScan35 LE

For 35mm slides and negatives **\$999**
12 MB image size
1950 DPI optical - 30 bit

Polaroid SprintScan35 +

For 35mm slides and negatives **\$2885**
26 MB image size
2700 DPI optical - 36 bit

Polaroid SprintScan45

For 4 x 5 positives and negatives

Minolta QuickScan 35

For 35mm slides and negatives
28 MB image size

Agfa StudioStar

14 inch scanning surface
600 DPI optical - 30 bit

Agfa Arcus II

Best descreening software.
600 DPI optical - 36 bit

Agfa DuoScan

Now available - and at a great new price

...or an Ink Jet Printer

EPSON Stylus PRO XL

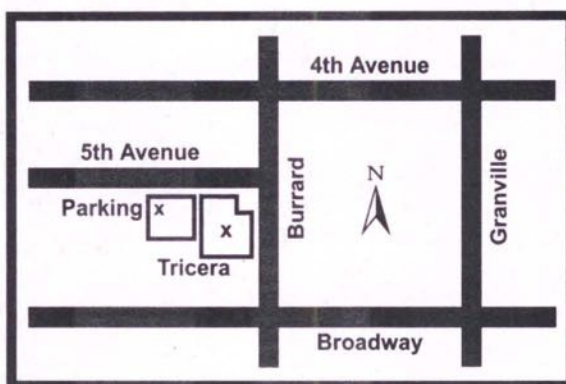
13" x 19" Photographic printer

EPSON Stylus1500

17" x 22" color CAD Printer

EPSON Stylus400

A real solid printer.
The best personal printer choice.



Monday - Friday
9AM - 5PM

GDT Stylus500 Postscript

Finally available for the Stylus500

Eye Candy now available

4 x 5
6 x 8
12 x 12
12 x 18

Wacom

ArtPads

Why buy anything else?

1440 DPI Ink Jet Printers

Did you say 1440 DPI?

Yes...1440 DPI!

EPSON Stylus600

EPSON Stylus800

EPSON Warranty Service - Sales - Supplies - Parts

203 1836 West 5th Avenue - Vancouver - 733-5702

Sweet 16...
continued from page 45

VISION X Software

Two-for-one deal

Between March 12 and April 30, purchasers of a Compaq LTE 5380 desktop PC (list: \$7,333) or Compaq LTE 5400 notebook PC (list: \$7,733) will receive a free Compaq PC Companion Model C120 Personal Digital Assistant as well. The C120, which has a list price of \$739, features 4 MB ROM (read-only memory) and 2 MB RAM.

Hot Web sites

<http://www.greenline.ca/>

TD Bank's Green Line Investor Services new investor-oriented Web site for secure, Internet-based securities trading services.

<http://www.canadabooks.com/>

Canada's Internet Bookstore, offering a catalogue of over 175,000 titles featuring an extensive list of Canadiana, as well as books from the United States and the UK.

<http://www.viarail.ca/>

Offers Internet users the ability to reserve VIA train tickets online for pickup or mail delivery.

<http://www.teensizzle.com>

TeenSizzle magazine, the hot young magazine for young teens on the Internet. Featuring articles, fiction, art, ideas, and hints for, by, and about teens.

Hot new Web sites

<http://www.globodex.com/>

A new Internet search engine for Canadian businesses. You can even add your business for free!

<http://www.etrade.com/>

This site offers members a low-fee

method to electronically purchase stocks and mutual funds

<http://www.readersdigest.ca/>

The new Web page of the famous *Readers Digest* publication, claiming to entertain, inform, enrich, and inspire the viewer/ reader.

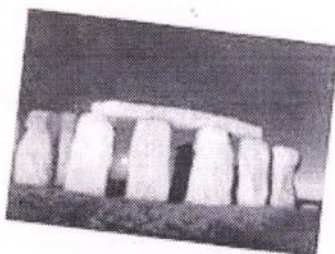
<http://www.stonehenge-association.co.uk/stonehenge/>

Lots of information on Stonehenge, with a link to the interactive version of the World Heritage Site featuring a virtual reality Stonehenge tour.

<http://www.number-10.gov.uk/>

Pictures, audio, and text on the British Prime Ministers office, as well as historic speeches and British press releases.

<http://www.achoo.com/>



One of the more popular information resources on the Web for accessing a wide range (over 8,000) of healthcare information sites.

Pass the chips!

Intel Corp. has introduced the Pentium processor with MMX technology—Intel's new technology for improved performance on multimedia-rich applications. Intel claims that the MMX chip will enable higher quality graphics, video, and audio. Access Intel information via the WWW at <http://mmx.com/> or <http://www.intel.com/pressroom/>

Speedy notebook arrives

Eurocom Corp. is claiming to be the first company out the door with a 200 MHz MMX Pentium notebook computer. The Eurocom

6200 Super Notebook has a suggested retail price of Can\$5,600 and features 32 MB of RAM, 8X CD-ROM drive, 1.3 GB hard drive, and a 12.1-inch TFT Active colour display. Contact (613)-224-6122 or <http://www.eurocom.ca/>

WordPerfect for UNIX

Corel Corporation is now shipping Corel

WordPerfect 7 for UNIX (including AIX, HP-UX, SunOS, and Solaris). Available for both character terminals and X Window systems, it is currently available in English only. Suggested list price is US\$495, with upgrades from US\$249. For more information, visit <http://www.corel.com/> or phone (613) 728-8200. ♦

InterAction

Your CD-ROM Specialist

- ACCESSORIES
- JOYSTICKS
- STEERING WHEELS
- VR HEADGEAR
- HARDWARE
- COMPLETE SYSTEMS

Rentals!

NEW RELEASES DAILY!

PC CD-ROM • PLAYSTATION • NINTENDO 64

OUT OF THIS WORLD PRICES ON OVER 500 USED TITLES!

**120 EAST 3RD STREET
NORTH VANCOUVER
EARTH**

(604) 987-DISC (3472)

**Free LucasArts CD-ROM
with any purchase!**

*while supplies last.

Open
new
horizons

Mac & Windows 95
Quark, Illustrator, Photoshop, Extreme 3D,
CorelDRAW, PageMaker, Fontographer, Design

METRO

Training Institute

Call for information: 682-6020
You may qualify for financial assistance even if
your UI benefits have run out or not yet started.

Your Own Web Site

Have you been hearing everywhere you turn "see our web site at <http://www.....>"? Have you thought it would be too expensive? Or you don't know how to go about it? Let Maximum Internet show you how you too can have a web site for as little as \$30.00 per month! You don't even need to own a computer to have a site, we can do all the creation for you or you may want to do it all yourself. Domain name registering and hosting available. Relocate your website.

We also can connect you to the Internet, and provide you with your own e-mail address as well, for only \$29.95 per month unlimited use.

SELLING SOMETHING? place an add on the Internet classifieds, with photo for only \$5.00 per month.

Clip this add and call today for a free consultation at your office today.

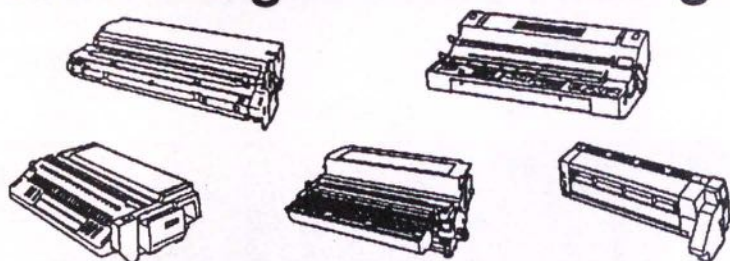
Maximum Internet
<http://www.max-net.com>
e-mail: mail@max-net.com

(604) 940-8921

Does Your Office have a Recycling Program?

Conserve our environment and
save \$\$\$ at the same time

Use Recharged Toner Cartridges



Alouette Laser provides remanufactured and refilled
toner cartridges to laser printer users with savings up to 60%

100% Money Back Guarantee

• We also carry other toners, developers & drum units.
Cartridges are tested and completely disassembled when recharged.
We also recharge cartridges for:

Photocopiers • Canon Personal Copier • **Laser Printers** • HP Laser Jet I, II, IIP, III,
• Sharp Z-series Copier • IIIP, IIID, IIIsi, IV • Apple
• Panasonic FP820 • Canon • Brother • IBM
• QMS • NEC • and more!

Laser Fax Machines

Onsite Cleaning Service — Rebuilt Fuser Assemblies

FREE PICK-UP AND DELIVERY IN GREATER VANCOUVER

Alouette
LASER PRODUCTS INC.

114-3070 Norland Ave. Burnaby, B.C.

Call Today
291-8442

Fax: 291-8435

Books

Get Wired You're Hired

• • By ALAN THWAITES • •

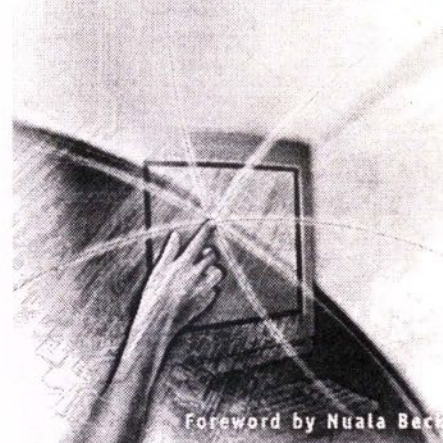
In *Get Wired, You're Hired: The Canadian Guide to Job Hunting Online*, Mark Swartz offers a much-needed resource to anyone who wants to use the online world to find a job. More importantly, he offers a *Canadian* perspective on what the tools are, how to use them, and where to look for potential employers.

The Canadian Guide to
Job Hunting Online



Get Wired, You're Hired

Mark Swartz



Foreword by Nuala Beck

Swartz is a career consultant whose exploration of online technologies is solidly grounded in an excellent understanding of what a high-powered job search needs. This is perhaps the book's main strength—

continued on page 49

**OVER 20,000
CURRENT BOOKS
ALL AT LEAST
50% OFF!**

HOT NEW ARRIVALS

CORELDRAW 6: EXPERT'S EDITION

with CD-Rom Sug. price 61.95
OUR PRICE \$30.97

NOVELL CNE 4 STUDY GUIDE

with CD-Rom Sug. price 122.95
OUR PRICE \$61.47

INSTANT JAVA APPLETS

with CD-Rom Sug. price 27.95
OUR PRICE \$13.97

USING VISUAL DBASE 5.5

with CD-Rom Sug. price 46.99
OUR PRICE \$23.49

PAGEMAKER 6

PC/Mac with CD-Rom Sug. price 54.95
OUR PRICE \$27.48

IT'S TIME TO VISIT

**HALF
PRICE**



**COMPUTER
BOOKS**

It's the name of our store
& it's our commitment to you!

Hey B.C.! Call Us Toll Free @ 1-800-663-0063

HALF PRICE COMPUTER BOOKS - Alderbridge Place

No.3 Road at Alderbridge Way, Richmond
#122 - 4940 No.3 Road V6X 3N8



Open till 9:00 Wed, Thurs, Fri

Visit our Website (under construction) <http://half-price.computer-books.com/>

Mail orders welcome! Call 231-1922

WESTERN CANADIAN COMPUTER SWAP MEET

SAT APRIL 19 10am-3pm

CLOVERDALE FAIRGROUNDS

ALICE MCKAY BUILDING

(PRODUCTS BUILDING)

CLOVERDALE B.C.

SPECTACULAR DEALS

ONE DAY ONLY
LOTS OF VENDORS

NEW & USED

**COMPUTERS
HARDWARE
SOFTWARE**

AND MORE

ADMISSION \$4⁰⁰

FREE CD-ROM SOFTWARE

FOR THE FIRST 200

DOOR PRIZE 2pm
6x86 MB. with CPU

INFO CALL
582-9443

Books

Get Wired You're Hired...

continued from page 48

that the Net is seen as a tool (albeit a very powerful one), rather than as an end in itself. In that regard, Swartz is perhaps on the cutting edge of a new breed of Net users, who will accept the Net as an aid to daily living.

Get Wired, You're Hired is laid out in four parts. Part One offers a close look at the effect of a rapidly shifting economic climate and the changing nature of work itself, an examination of how these changes have affected the ways in which people look for work, and what Swartz calls a "basic primer" of online work-search tools.

Parts Two and Three get down to the nitty-gritty. First, Swartz guides the reader through a quick course in career planning, including pointers to online career tests and self-evaluations. Then, there are detailed markers to how to create marketing materials and target those specific industries and companies relevant to the reader's job search.

Part Three focuses on networking into "the hidden job market" that, according to Swartz, comprises up to 80 per cent of all job opportunities, explains how to job hunt online (using the Web, mailing lists, and Usenet

newsgroups), and explores the option of self-employment.

Better learn to surf, Charlie

Part Four is about "Staying Wired and Hired," the author's exhortation to stay in touch with constant change and new opportunities via the Net. True to the spirit and title of the book, a "Get Wired, You're Hired" Web site will give readers an updated list of Internet-based resources, technology updates, and a bonus chapter to the book.

The book is a clearly written and comprehensive guide to a world that's new and somewhat threatening to many. It deserves pride of place on the bookshelf of anyone who's serious about making wise career choices. ♦

info box

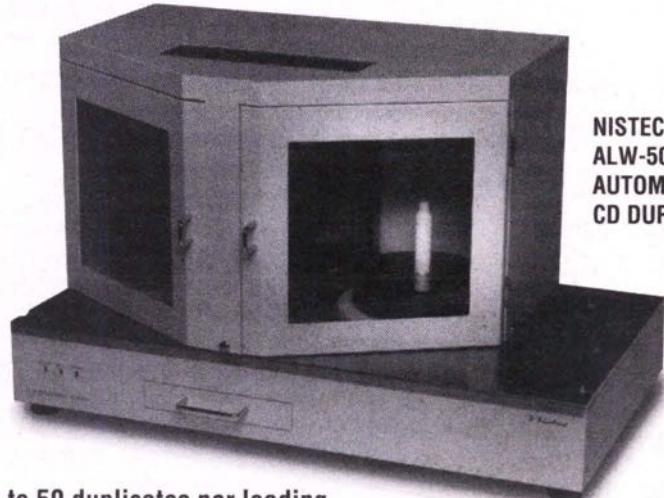
Get Wired, You're Hired: The Canadian Guide to Job Hunting Online, by Mark Swartz, from Prentice Hall Canada Inc. 0-13-851262-0. \$21.95.

WiredHired Web site

<http://www.wiredhired.com/>

SUPERDUPER™

THE BIGGEST NEW IDEA IN FULLY AUTOMATIC CD DUPLICATION FITS INTO A SMALL 20" SPACE
And the smallest budget



NISTEC
ALW-501
AUTOMATIC
CD DUPLICATOR

- Up to 50 duplicates per loading
- Makes copies unattended... from one or many Master CD's
- Simple Microsoft® Windows-based, one click start operation
- Built-in data verification and automated quality control
- Writing drive sealed to avoid contamination.
- No disc caddy required
- Includes dedicated application software for Microsoft® Windows 3.1
- The lowest price for these features

For more information call

604-331-0116

ASTEL ENTERPRISES LTD. #1257 Granville Street, Vancouver, B.C. V6C 1T2
E-mail: astel@wimsey.com • Web site: <http://www.intransnet.bc.ca/astel/astel/html>
Fax: (604) 331-0120



EVERFLY COMPUTER CO. LTD.

1090 Kingsway, Vancouver B.C. V5V 3C6
Phone: (604) 879-3232 Fax: (604) 879-1266
Mon. - Fri. 10:30 a.m. - 6:30p.m. Sat. 11:00a.m. - 5:00p.m.

ENTRY LEVEL SYSTEMS

P-100 MHz — \$1290 P-150 MHz — \$1399
P-120 MHz — \$1305 P-166 MHz — \$1550
P-133 MHz — \$1340 P-200 MHz — \$1450
Pentium Triton II chipsets
512 P.B.C. w/512K
(Support up to 200 MHz)
Intel pentium Processor w/Fan H.S.
2 x 8 MB xxx EDO 72pin (Total 16MB) Memory
Panasonic 1.44 MB Floppy Drive
EIDE, Mode 4, 1.28 GB Hard Drive
SVGA 64 Bit PCI 1/2MB EDO Video Card
14" NI,LR 1024 x 768 Monitor
Mid 15" Tower w/230 Watts P.S.
12x IDE CD ROM Drive
SB-16 PnP
MDI - 691 60 Watts speakers
104 Keys Keyboard
3B Serial Mouse w/pad

INTERMEDIATE LEVEL SYSTEMS

With "MMx TECHNOLOGY"
Pent-MMX 166MHz \$2425 Pent-MMX 200MHz \$2675
Intel Marl ATX w/512K PBC Main Board
(support up to 200 MHz CPUs)
Intel Pentium Processor w/MMx Technology and
Fan H.S.
32 MB 60nsec EDO Ram Memory
Panasonic 1.44 MB
Fast EIDE, Mode 4 2.1GB Hard Drive
Ati Expression Plus PC-to-TV w/2MB EDO Ram
Sony 100SX 0.25 dp 15" Monitor
ATX 17" Tower w/250 watts CSA Approved
12x IDE CD-ROM
SB - 32 PnP
MLI-691 speakers 60 watts
Fujitsu 8725 -104 keys
Logitech Mouseman w/pad

We Also REPAIR and REFILL - TONER for All makes of PRINTERS and PHOTO COPIERS
"FREE Estimation Fee."

Monitors

* SONY 100SX 0.25dp 16" .....\$540	* VIEWSONIC 15GS .....\$499
* SONY 100SF 0.25dp 15" .....\$629	* VIEWSONIC 17EA (Multimedia) 0.28dp \$825
* SONY 200SX 0.25 dp 17" .....\$949	* VIEWSONIC 17GA (Multimedia) 0.27dp \$899
* SONY 200SF 0.25 dp 17" .....\$1160	* VIEWSONIC 17GS .....\$849
* MAG DX15T 15" 0.25 dp .....\$465	* VIEWSONIC 17PS .....\$975
* MAG DX 500T 17" 0.25 dp .....\$870	* ACULA 14" NI LR .....\$220
* NEC M500 15" (Multimedia) .....\$610	* ACULA 15" NI LR .....\$320
* NEC C500 15" .....\$539	* ACER 54E 15" .....\$399
* NEC M700 17" (Multimedia) .....\$1090	* ACER 56E 15" NI,LR .....\$385
* NEC P750 17" 0.25dp .....\$1425	* ACER 76IE 17" 0.27dp .....\$735
* VIEWSONIC 15GA (Multimedia) .....\$575	* ACER 78IE 17" 0.26dp .....\$875

Sales Repairs and Upgrades Centre All Work Guaranteed

PROFESSIONAL LEVEL SYSTEMS

P-PRO 180MHz .....\$3350	P-PRO 200MHz .....\$3600
--------------------------	--------------------------

Intel Venus ATX Mainboard
Intel Pentium Pro Processor w/fan H.S.
32 MB 60nSec EDO RAM, Panasonic 1.44 MB
Fast EIDE, Mode 4 3.2 GB Hard Drive
Matrox Mystique w/2MB SGRAM and games
Mag DX 700T 17" 0.25dp Monitor
ATX Mid 17" tower w/250 watts CSA Approved
Creative Lab Discovery 64 Awe Packages
(Included: 12x Remote CD-Rom and AWE 64 Sound Card)
Fujitsu 8725 104 keys Keyboard
Logitech Mouseman w/pad

UPGRADE OPTIONS FOR ALL LISTED SYSTEMS

* ACER 33.6 S/R/Fax/Voice Modem\$95
* Supra Express 33.6 S/R/Fx/Voice PnP\$115
*USR "Personal Voice" 33.6 S/R/Fx/Voice\$149

Full Duplex, speaker phone 56 K upgr. etc
*Ext Motorola 33.6 S/R/Fax\$190
*PDP- Sub Woofer (Yamaha OEM)\$85

Printers & Palm Top w/Microsoft CE

*Epson-Stylus 400 720x720 dpi\$330
*Epson-Stylus 600 1440x720 dpi (up to 6ppm)\$430
*Epson Stylus 800 1440x720 dpi (up to 8ppm)\$635
*Lexmark IT-2070 600x600 dpi (up to 7ppm)\$395
*Lexmark IT-2050 600x600 dpi (up to 5ppm)\$345
*Lexmark IT-2030 600x300 dpi\$290
Palm-top w/MS CE w/2mb/4mb\$620/775

CDROM Drives & Sound Cards

* SB-64 AWE\$245
* SB-64 AWE GOLD w/4MB Memory\$325
* SB-16 pnp (OEM)\$79
* SB-32 pnp (OEM)\$135
*Panasonic 12x IDE\$149
*Toshiba 12x IDE\$150
*Acer 10x IDE\$135
Creative Lab Discovery 64 Awe Package SPECIAL\$380
*NEC 8x IDE\$125

ACER PRODUCTS SPECIAL

ACER Flatbed Scanner\$375
optical 300 x 600, software up to 4800 x 4800
ACER 33.6 S/R/Fax/Voice\$99
Speaker phone, ASVD
ACER 34T 14" 0.28 dp270
ACER PCI ETHER COMBO50
ACER 9 Port Ethernet HUB\$119

Hard Drives

Fujitsu 1.29 EIDE\$249
Fujitsu 1.7 GB EIDE\$279
WD 1.6 GB EIDE\$285
WD 2.1 GB EIDE\$310
WD 2.5 GB EIDE\$360
WD 3.1 GB EIDE\$399
WD 4.0 GB EIDE\$520
QTM 2.1 GB EIDE\$320
QTM 2.5 GB EIDE\$349
QTM 3.2 GB EIDE\$385
QTM 3.8 GB EIDE\$430

NEC

Canon

AD

brother

FUJITSU

Prices are based on COD only and subject to change without notice.

ZL COMPUTER

Real Quality & Real Service

130-5726 Minoru Blvd
Richmond, B.C. V6X 2A9
Next to Richmond Driver Center

Tel: (604) 273-6998
Fax: (604) 273-3859
Mon- Sun: 9am to 6pm

Systems are Internet Ready with 3 years labor and 1 year parts warranty

P-133/166 \$1988/2188

Intel Pentium 133/166 MHz CPU
AZZA MB PT51 W/512k
12X CD ROM (Toshiba)
1.7 GB Fujitsu Hard Drive
1.44 MB 3.5" Fujitsu Floppy Drive
2 MB 64 Bit Video Card
16 MB EDO Memory
15" LEO 1280x1024 Monitor
Win95 Keyboard, Mouse & Pad
Acer ES1868 Sound Card
15" Super Case 230W Power
33.6INT Fax/Voice Modem
60W Speaker & Microphone
Window 95 & 1997 Croller CD

Memory 8MB EDO\$58
16MB EDO125

CPU Intel 133/166195/389

Monitor Sony 100SX560

Sony 100SF688

Speaker DCS240W55

DCS DS2769

Sound Card

Sound Blaster 16W/Amp78

Fax/Voice Modem

POWCOM33.6 INT120

Note Book

SCEPTRE S3900/4000Call

**ALL KINDS OF PARTS
PLEASE CALL**

**BEFORE YOU MAKE THE DECISION
CHECK OUR PRICE AND SERVICE FIRST**



**GIVE SOMEONE
LIKE MICHELLE
A SECOND CHANCE.**

Until a few months ago, kidney dialysis was her only chance. But then a kidney donor was found. Discuss organ donation with your family and sign a donor card today. If enough people do, we can give others like Michelle a second chance. During March, Kidney Month, when a volunteer knocks on your door, please support The Kidney Foundation.



**THE KIDNEY FOUNDATION
OF CANADA**

Hardware

Slim notebook can bulk up as needed

Lately, notebook computers have been getting bulked up like Arnold Schwarzenegger. You need Arnie's muscles to haul them around, too. The Compaq Armada 4120T tries to take some of the load off your shoulder with a modular design that starts slim and lets you add pieces as required until you have a loaded (and hefty) powerhouse.

• • By LYNN GREINER • •

The basic machine is under 2 inches thick, and weighs less than 5 pounds. You add a pound by attaching a carrying handle that doubles as both a handy swivel-down foot and the holder for the main battery, a cylinder similar to that pioneered by Digital in

The keyboard has large, flat keys with a fairly firm touch (harder than I like, but preferred keyboard feel is a personal thing). People with large hands will enjoy this keyboard, while small-fingered folk may find distances to peripheral keys excessive. Four user-programmable buttons can be either the special Windows 95 keys, or can be used to launch frequently used applications.

There are indicator lights for power and so forth, but disk activity lights are omitted. Ports includes the usual set, plus NTSC/PAL output for TV or composite monitors.

The Armada gets about 2.5 hours use per charge from its Lithium-Ion main battery, but you can extend that by substituting a second battery for the floppy drive (yet a third fits



into the CD expansion unit). You can still use diskettes, too, by attaching the floppy drive to the parallel port with an optional cable.

The manual is especially good, with a full explanation of system error codes, pinouts for all ports, troubleshooting instructions, and operating instructions for both the computer and peripherals.

Overall, the Armada 4120T is a thoroughly decent machine for the busy road warrior. ♦

into the CD expansion unit). You can still use diskettes, too, by attaching the floppy drive to the parallel port with an optional cable.

The manual is especially good, with a full explanation of system error codes, pinouts for all ports, troubleshooting instructions, and operating instructions for both the computer and peripherals.

Overall, the Armada 4120T is a thoroughly decent machine for the busy road warrior. ♦

**i n f o
b o x**

Armada 4120T notebook computer, from Compaq. \$3,999. Comes with Windows 95, Netscape Navigator, ESS Audio Rack, Lode Runner, Take Your Best Shot, LapLink, Just Connect, and Compaq utilities. For further information, visit Compaq's Web site at <http://www.compaq.com/>

No rest for the wicked?

Counter to the current trend, there's no palmrest to speak of, just the space below the keyboard where the touchpad pointing device resides. Stereo speakers live at the bottom right and left corners of this area as well. If you hate touchpads, this one can be user replaced with an optical trackball.

A tale of two office suites ...

continued from page 44

Of course, all the included applications have also been updated. The OfficeArt drawing module now does all many users will need, while Word's new table features are especially nice: you can now literally draw a table. There's

more autoformatting, and a real-time grammar checker. Excel has improved its natural language abilities: you can make a formula that reads "Profit=Revenue-Expenses." It adds a mapping feature, catching up with Lotus 1-2-3 in that regard.

Again, Internet support is part of all

programs—all can save in HTML, or embed Web hotlinks. Applications support group projects, although Lotus SmartSuite's groupwork features are more powerful.

Word has learned to control for the increasingly common macro viruses—an important security improvement. Unfortunately, new fea-

tures in all the programs have resulted in new file formats as well; you can save in the old file formats, for compatibility with users of the older versions.

A slick update, Office 97 is still the suite package that defines its product category. ♦

Strong

COMPUTER INC.

101-1926 West Broadway,
Vancouver, B.C. V6J 1Z2
Tel: (604) 739-0438
Fax: (604) 739-0436
Business Hours:
Mon.-Fri. 10:00-18:00 Sat. 12:00-17:00

Pentium Special

120MHz	133MHz	150MHz	166MHz	200MHz
\$1580	\$1620	\$1660	\$1850	\$2100

* Pentium MMX and Pentium PRO Please Call *

- Intel Triton VX Chip Set, 256K Pipeline Burst Cache, PCI-ISA Bus
- Intel Pentium CPU
- 16MB RAM (EDO, 60ns, 72 pin SIMM)
- 1.44MB (3.5") floppy disk drive
- 1.28GB EIDE hard drive (mode 4, 10ms)
- On Board PCI EIDE HDD controller (control up to 4 IDE devices)
- On Board 2 UART 16550 Fast Serial, 1 parallel (EPP/ECP) Ports
- S3 Trio 64, 64Bit SVGA card w/1MB DRAM PCI
- Supra 33.6K Internal Fax Modem w/Voice V.34
- 8X Internal CD ROM Drive (EIDE)
- 16 Bit Sound Card
- 13" tower case w/200W CSA approved power supply
- 14" ACER SVGA Non-interlaced color monitor (1024x768 .28mm)
- 2 External Speakers (120W)
- 104 key windows enhanced keyboard
- Microsoft 2 button mouse
- MS Windows 95 (CD, Full Version)

Upgrade to: 32MB EDO RAM \$120, 1.7GB HDD \$40, 2.1GB HDD \$90,
15" Acer Monitor \$100, 17" Acer Monitor \$400, ATI Mach 64 2MB \$50,
ATI 3D Xpression+ 2MB \$130, Matrox Millennium 2MB \$200,
Matrox Mystique 2MB \$180, 19" Tower Case \$20

* Free Estimate on Repairs and Upgrades *

All Systems 2 Years Parts and Labour Warranty

Prices subject to change. Please call for the latest prices

星
強
電腦公司

We Specialize in: PC Upgrades & Repairs, Installation of Software, CD ROMs, & Modems.

Low
Prices
on all
Items!
please
call

Special

TRITON II

★Pentium System★

MMX Ready
Intel Pentium CPU w/ Cooling Fan
Triton II Chipset MB w/ 256K Pipeline Cache
On Board 2x EIDE, 2x Fast Com Port,
Enhanced Printer Port & Floppy Controller
8Mb EDO Memory
1.2 Gb Hard Drive (Mode 4)
1.44 Floppy Drive
14" SVGA, NI, .28 dpi monitor
PCI Video card w/ 1Mb Memory (exp. to 2M)
13" mini tower w/ 230 watt power supply
104 key Win'95 keyboard
mouse & pad

AMD K5-90	\$868
6X86 150+	\$958
P-100	\$948
P-120	\$958
P-133	\$998
P-150	\$1048
P-166	\$1218
P-200	\$1518

We Carry Computer Parts & Accessories

We do TRADE-INS too

All Systems come with 2 Years Parts & Labour Warranty

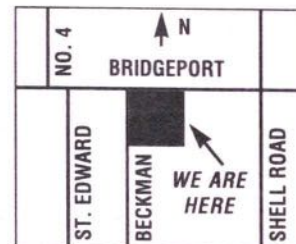
All prices are subject to change without notice.

BECKMAN COMPUTER

170-10400 Bridgeport Rd, Richmond, BC, V6X 3R2 (Entrance at Beckman Place)

Phone: 303-7982 Fax: 303-7983 Open: Mon-Fri 11-7 Sat 11-6 (Closed Sun & Holidays)

國、粵語服務



MyCom Computers

CANON BJC 4100 . . . \$298, BJC 240 . . . \$245
HP 690C . . . \$393, 870CXI . . . \$638, 5L . . . \$528, 6P . . . \$948



我們會說:普通話, 閩南語, 廣東話,
我們會將您的電腦診斷, 建議, 昇級, 維修, 使您的電腦發揮到最高水準!
免費昇級估價, 兩年硬體維修保證。

UPGRADE TO TRUE PENTIUM

Pentium-120	\$558
Pentium-150	\$668

Includes: Intel Triton III VX Board
(Upgradable to 200MHz,
168 PLUS DIMM X2 & USB available)
16M EDO Mem.
PCI SVGA + MPEG 2M
Pentium CPU w/Fan
Labor included

Optional: WD 2.1/ 2.5G	\$305/336
SB16 Pnp + CD-ROM 8X/12X	\$228/248
ATI 3D PC2TV 2M/4M	\$168/218

P-120 / 133 / 150 / 200

\$1988 / \$2038 / \$2098 / \$2398

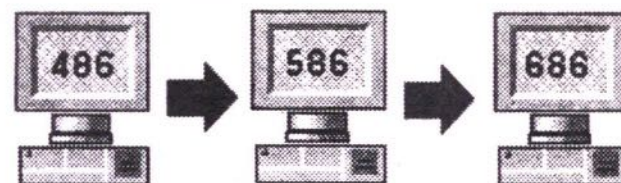
P-166/200 MMX

\$2378/\$2698

Intel TRITON III VX main board
16M 72 Pin EDO SIMM
1.44 MB Floppy Drive
2.1G MODE4 EIDE HD
SVGA MPEG PCI w/2M
SB16 + 12X CD-ROM
15" MPRII LR, NI, Monitor
Med Tower Case w/CSA 230W Power
104 Win95 Keyboard, Mouse & Pad
Power Bar & 80W Speakers & More

OPTIONAL

17" ViewSonic GS	+ \$498
17" ACULA MPR11	+ \$310
USR Sportster 33.6 W/Voice	+ \$168
Digicom 33.6 W/Voice	+ \$128
16X CD ROM	+ \$55
3.1G WD HD	+ \$75
SB 32 PnP	+ \$58
SB AWE 64	+ \$188
130 W Speakers	+ \$68
32M EDO	+ \$90
Millennium /4M	+ \$298
TV Tuner	+ \$198



5636 DUNBAR ST. (DUNBAR & 41st AVE.)

TEL: (604) 264-9883 FAX: (604) 264-9881

Tues - Sun 10:30 am - 6:30 pm, Mon. Closed

Understanding the stock market

• • By DAVID ROSEN • •

Trading stocks and commodities is a complex business. If you're trading for personal gain, you should know about *Personal Hotline* from Trendsetter Software. While the program can't give you insider stock tips, it *can* help you plan your personal buying-and-selling strategy.

The software includes a wide variety of features, including data capture and management, graphing and charting, and trend-line analysis. You'll also find indicators, oscillators, and just about any analysis study you can imagine.

One of *Personal Hotline's* strongest features is its charting tools. When you're analyzing stocks, charts are used for technical analysis, offering a visual aid to figuring out trend and market action. The old saying that a picture's worth a thousand words is certainly true when it comes to stock-market trading.

A quick glance at a chart of historical information shows you when you should have bought or sold. It's customizable, allowing you to create custom charting in virtually any type or time format with all the bells and whistles you're likely to want.

I know what you're thinking: "so what? Hindsight is always 20/20 and you can't go back in time even with an impressive software program." That's true, but the right tools and a little work on your part can help you to understand what the market is likely to do *next*. That's what professional stock analysts do and that's why they get paid the big bucks. Now you can decrease the risk of playing the stock market and, hopefully, increase your profits. ♦

**info
box**

Personal Hotline, from Trendsetter Software. US\$595 (list).

The company can be reached online at Trndsetter@aol.com (note the missing "e") or by telephone at 1-800-825-1852.



**When you sell a
Sceptre Soundx 4000,
your customers
won't hear this:**

**"The wait for
tech support is
currently longer than 45 minutes"**

Service. It's not that your customers are likely to need it. But isn't it nice to know it is there if they do? Notebook computers are complicated devices and their owners might have questions or issues that need resolving. We at Sceptre know this so prompt and courteous technical assistance automatically come with every Soundx 4000 notebook computer. This means that they won't have to aimlessly wander through an arcane voice mail menu so that they can then wait on terminal hold. But that's not all. Sceptre has service centers on both the east and west coasts. The end result is that you have satisfied customers. That means repeat business for you.

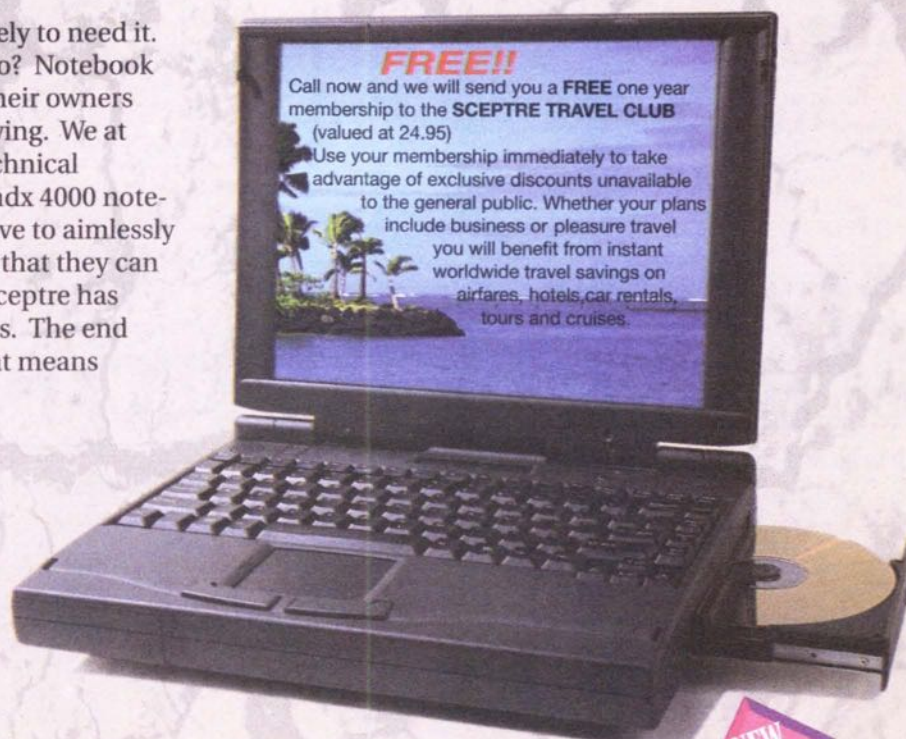
For a distributor near you call 1-800-788-2878 and receive a free one year membership in the Sceptre Travel Club, a \$24.95 value.

"A top performer"...
PC Magazine

"One of the better ones around"...
Laptop Buyers Guide and Handbook

**The Sceptre Soundx 4000.
Available now.**

Visit us at Comdex Canada '97, July 9-11, Booth #5122



11.7" x 8.9" x 1.9", 6.3 lb. w/floppy drive, 133 to 150 MHz Pentium Processor, 1 to 2 GB user removable HDD, 8 to 40 MB EDO RAM, Lithium Ion Battery 12.1" TFT SVGA display, 128 bit graphics, Modular Design, 10X CD-ROM, IR port

**NEW
10X**

SCEPTRE

EXCELLENCE FOR ALL THE WORLD TO SEE

<http://www.sceptretech.com>

1-800-788-2878

A musician's treasure trove

• • By DAVID ANDERSON • •

Here are three very distinct ways to use the capabilities of the CD-ROM format to celebrate music.

First, let's look at *New Beat Trancemission* for Windows 95, by Microforum. This is a fascinating collection of sound generators and editing applets, joined together in a very sensible new-age environment. The basic idea of this program is to create dance rhythms like those heard in today's cool electronic dance clubs.

The CD-ROM comes with a large library of effects, drum rhythms, conga patterns, two- and four-bar bongo fills, scratch riffs, organ, synth, guitar, and electric bass patterns. The user gets to call them up in pre-recorded songs, and play mix engineer, or it is possible to call up each individual voicing or sound module, and sequence it into a completely original dance mix.

The main mixing console is difficult to describe, except to say that there are 20 buttons, with on/off LEDs, which control the presence or absence of any given sound. There are also four play/record controls, which permit the multitracking of up to four simultaneous tracks in one song. There are no Microsoft-type menus, but the controls are intuitive enough to make sense after a while.

Basically, you load sound files, save the

stereo out of the closet and plug it in to your sound card. Give yourself a real blast!

Take another little piece of my hard drive, baby (oops, wrong Joplin)

Next comes *Total Joplin*, by Sunhawk Corporation of Seattle, Washington, also for Windows 95. This is a very handsome collection of music, history, images, and a bit of theory concerning the ragtime piano music written by Scott Joplin. The visuals

are beautifully keyed to the era, and the interface is smooth as silk.

The program contains an overview of the history and basic structure of ragtime, as well

continued on page 54



layouts, play them in a sequencer, and save the resulting mix.

If this was all it did, *Trancemission* would be a must-have for any electronic musician with a Pentium-class machine (16 MB RAM minimum) and a fat-sounding audio system, such as a wave-table card and a sub-woofer.

There's more, however. *Trancemission* happens to contain a very sensible drum machine, with oodles of effects and half-decent drum sounds. There are three snare sounds, three bass drum sounds, and some very decent hi-hat sounds. The interface is an education in music theory just looking at it. The sounds are punched in or out with a mouse click. Save the pattern as a WAV file, and pick it up in the main console as part of a new dance mix.

Still not impressed? Then open the drum pattern with Sound Warp, a WAV file editor, and add echo, or reverse flange, or both. Or pick up a microphone, and create a voice pattern to sequence into your masterpiece. All in all, this is one adventurous piece of code, and the sounds are hot enough to get your old

主 機 板
顯 示 器
機 箱
磁 碟 機
記 憶 體
電 腦 用 品
軟 體
電 腦 升 級
電 腦 系 統

CE COMPUTER OUTLET
118-4800, No.3 Road, Richmond, B.C. Canada V6X 3A6
Tel: (604) 278-2633 Fax: (604) 278-2661

ATTN: Students, Electronic hobbyists & Smart buyers.

Build your own system or upgrade your system from 286 to 386 to 486.
We have a huge selection of new items in-stock.

WE TAKE TRADE-INS TOO!!

STORE HOURS

Monday-Friday
11:00am - 7:00pm
Saturday
11:00 am - 6:00pm
Sunday & Holidays
closed

- ◆ NEW AND USED COMPUTER PARTS & COMPONENTS.
- ◆ WE ALSO PROVIDE SERVICE, MAINTENANCE, REPAIR AND UPGRADE OF COMPUTER SYSTEMS.
- ◆ WE PROVIDE SERVICE FOR CHANGING POWER SUPPLY COOLING FAN AND MONITOR REPAIR TOO !
- ◆ FREE ESTIMATES BEFORE ANY WORK REQUEST.

INTEL PENTIUM SYSTEMS

P - 100 \$1040	P - 150 \$1130
P - 120 \$1050	P - 166 \$1300
P - 133 \$1080	P - 200 \$1590

* With Intel CPU & fan

* Intel Triton Chipset Motherboard w/256K PIPE LINE Burst RAM

* 16MB EDO RAM (72 Pin)

* 1.28 GB Enhanced IDE HDD

* 1.44MB (3 1/2") Floppy

* PCI 1MB Video Card (exp. 2MB)

* EIDE with 2X 16550, 1 Para Port

* 14" N/I L/R SVGA .28dp, Monitor

* 13" Mini Tower Case

* 104 Windows 95 Keyboard

* Mouse & Pad

UPGRADES

Multimedia 12X CD ROM

- Sound Blaster 16 Plug & Play + \$260
- Speakers (Amp & power)
- Modem/ Fax + \$120
- 33.6 S/R Voice
- Memory + \$125
- 32M EDO RAM (72 pin)
- Hard Drive + \$30
- 1.6GB (Mode 4)
- 2.1GB (Mode 4)
- 2.5GB (Mode 4)
- Monitor + \$110
- 15" SVGA NI L/R .28dp
- Video + \$110
- ATI Mach 64 EDO 3D/2m
- Stealth 64 EDO 3D/2m + \$100
- Printer + \$299
- Canon BJC-4100C
- Mouse + \$30
- Microsoft/ Logitech (OEM)
- CD-ROM + \$40
- 12X

SPECIAL (New Items)

64 Bit PCI Video Card
With 1m/2m.....\$39/\$60
Ergonomic Keyboard....\$23

LIMITED STOCKS !!!

COMPUTER ACCESSORIES (from \$1.00 & up)

Power Supply-

- Cooling fan
- Parts

Cables-

- Power Cord 6'
- Set of IDE/Floppy Cables
- IDE Cable
- Dual Floppy Cable

Cleaning Kits-

- 3.5" or 5.25" Head Cleaning Kit
- Mouse Pad
- MFM Cable (set)

Hardware-

- Screws, Studs, Edge Connectors, Cables, Rails, Etc...

TWO YEARS PARTS & LABOUR WARRANTY FOR SYSTEMS

Company Policy

- No cash refund
- No guarantee on availability of advertised items
- Most items have limited quantity, ie first come first serve basis.
- All sales are final.

- All above prices are for cash & carry only
- No visa or cheque will be accepted
- All brand new items have 1 year warranty
- All used parts * components have 30 days warranty.
- All obsolete & damage items have no warranty.

樣品和舊電腦
舊零件
損壞的電腦和零件
全新電腦和大量零部件

A musician's treasure trove ... continued from page 53

as a biography of Joplin's life and times. The principal feature of the disk is the play list of songs. Each song plays in its entirety, with great sound, and comes with liner notes and, where available, the original sheet music covers, which are truly beautiful on their

own. I have captured several for wallpaper. In addition, the program contains the fascinating Solero Music Viewer, also by Sunhawk, which loads any song and plays it with a bouncing ball, at any tempo, and prints it out flawlessly. I asked my piano-student wife to look at it, and she was transfixed, watching the bouncing ball (a dot, really) as it slid through Joplin's

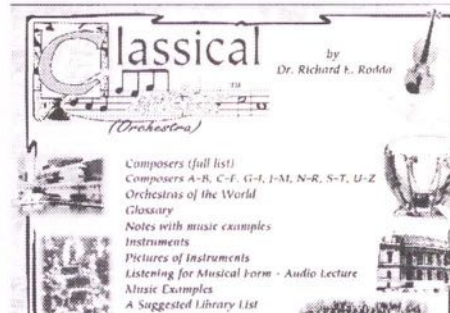
arrangements. As with *Trancemission*, this program has the ability to support the learning of music theory. You might know what a drag triplet is, but when you can see and hear one being played on piano, you can easily see how it is written, and how it is played correctly.

Needs tuning

Finally, the bottom-of-the-barrel award

goes to a real heavyweight of Windows shovelware, *Classical Notes*, by Dr. Richard E. Rodda. Dry, boring, and packed with text, I predict that this disk will die a quick and painless death.

Classical Notes is an attempt at an encyclopedia of classical music, with some sound samples and a few weird photographs of drum parts and French horns. Instead, it only shows how far we have come since the days when CD-ROMs first came out.



Any Microsoft classical music CD-ROM is stunning next to this earnest endeavour. *Classical Notes* contains the worst sound I have ever heard, but the sound clips are only intended to motivate the music student to seek out the real thing.



Total Joplin.

If *Classical Notes* was my first contact with classical music, I would never have thrilled to the soaring melodies of La Boheme, or trembled at the majesty of Stravinsky. Please, Dr. Rodda, upgrade your sound card!

David Anderson is a part-time casual musician, and an elementary-school computer teacher. He can be reached at david_anderson@mindlink.bc.ca



Classical Notes, from Hopkins Technology, LLC. Windows CD-ROM. \$44.99.

Contact: (612) 931-9376; <http://www.hoptech-no.com/>

Total Joplin, from Sunhawk Corporation. Win95 CD-ROM. \$59.99.

Contact: 1-888-SUNHAWK or (206) 528-0876; <http://www.sunhawk.com/>

New Beat Trancemission, from Microforum Inc. Win95 CD-ROM. \$29.99.

Contact: 1-800-685-3863; <http://www.microforum.com/>



United Computers

The Place to Build Your Own Box

Intel Pentium-133

- ✓ Pentium-133MHz CPU
- ✓ Triton Chipset/256k Pipeline Cache
- ✓ 8MB EDO 72pin RAM
- ✓ 1.2 GB EIDE (mode4) Hard Drive
- ✓ PCI SVGA 1MB Video Card (exp. to 2MB)
- ✓ 1.44 MB 3.5" Floppy Drive
- ✓ 14" NI L/R SVGA Monitor
- ✓ Mid-Tower Case / 230 W Power
- ✓ 104 Key Win95 Keyboard
- ✓ 2 B Mouse

Sale Price:

\$1,018

- *P100 / P120 / P150 / P166 / P200
- \$ 968 / 988 / 1068 / 1218 / 1478
- *Pentium166 MMX: \$1,418
- *Pentium200 MMX: \$1,635

Intel Pentium-166

- ✓ Pentium-166MHz CPU
- ✓ Triton II Chipset/256k Pipeline Cache
- ✓ 16MB EDO 72pin RAM
- ✓ 1.6 GB EIDE (mode4) Hard Drive
- ✓ PCI SVGA 2MB Video Card
- ✓ 1.44 MB 3.5" Floppy Drive
- ✓ 8x EIDE CD-ROM Drive
- ✓ 15" NI L/R SVGA Monitor
- ✓ Mid-Tower Case / 230 W Power
- ✓ Sound Blaster 16 PnP
- ✓ 60W Stereo Speaker
- ✓ 104 Key Win95 Keyboard
- ✓ MS Ver2 / Logitech Mouse

Sale Price:

\$1,659

- *P100 / P120 / P133 / P150 / P200
- \$1419 / 1439 / 1469 / 1519 / 1919
- *Pentium166 MMX: \$1,849
- *Pentium200 MMX: \$2,085

Intel Pentium Pro 200

- ✓ Pentium Pro-200MHz CPU 256k L2C
- ✓ Intel 440FX ATX Motherboard
- ✓ 32MB EDO 72pin RAM
- ✓ 2.1 GB EIDE (mode4) Hard Drive
- ✓ ATI PCI 2MB Video Card
- ✓ 1.44 MB 3.5" Floppy Drive
- ✓ ATX Tower Case / ATX Power
- ✓ 104 Key Win95 Keyboard
- ✓ MS Ver2 / Logitech Mouse

Sale Price:

\$2,085

*Pentium Pro180: \$1,885

Welcome to Visit our Website:

available on April!

"WWW.UNITEDCOMP.BC.CA"

Upgrade Options:

8MB⇒16MB / 32MB EDO RAM	\$59 / 170	33.6 Fax/Data Modem	\$110	14"⇒15" / 17" Monitor	\$90 / 300
256K⇒512K Pipeline Cache	\$15	8x / 12x CD-ROM Driver	\$125 / 145	60W / 120W Speaker	\$25 / 66
1.2GB⇒1.6GB / 2.0GB / 2.5GB	\$40 / 90 / 120	Fujitsu / MS Nature Keyboard	\$10 / 86	Microsoft Home CD pack	\$80
16bit / 32bit Sound Card	\$75 / 135	Microsoft / Logitech Mouse	\$32 / 32	Windows 95 / DOS 6.22+Win3.1	\$125 / 130

Storage Devices

Hard Drives:

WD 1.6 / 2.1 GB	\$285 / 315
WD 2.5 / 3.1 GB	\$345 / 395
Quantum 1.2 / 2.1GB	\$260 / 320
Quantum 2.5 / 3.1GB	\$340 / 385
Maxtor 1.6/2.0/2.5GB	\$280/315/345
Seagate1.2 / 1.6GB	\$248 / 270
Quantum 1.2 / 2.1GB esdi	\$340 / 450
Seagate2.1 / 4.26GB wcsi	\$660/1495

Backup / JAZ / ZIP Drives:

Colorado 350 / 700MB int.	\$258 / 299
Colorado Tracker 350MB ext.	\$276
Colorado TBD800 int./ext.	\$212 / 250
Conner 420 / 800MB int.	\$160 / 205
Ditto 2GB int/ext.	\$210 / 260
ZIP 100MB Drive Para/SCSI	\$255
JAZ 1GB SCSI int / ext.	\$545 / 630

Networks

Ovislink ISA NBC Network Card	\$38
Ovislink PCI BNC Network Card	\$49
NE2000 Combo PCMCIA NIC	\$199
NE2000 16bit ISA Combo PnPNIC	\$86
NE2000 16bit ISA Coaxial PnPNIC	\$86

Modems

Thunderlink33.6 int Voice	\$119
Cardinal 33.6 int Fax/Modem	\$160
Cardinal 33.6 int Voice/Fax/Data	\$210
Supra 33.6 PnP w/Voice	\$130
GVC 33.6 PCMCIA Fax/Modem	\$275
USR 33.6 int / Voice	\$145 / 160
USR 33.6 int / ext. Voice	\$219 / 245
USR Courier ISDN int./ext.	\$539 / 632

CPU/RAM/M-Board

Intel P100/P120/P133	\$145 / 155 / 195
Intel P150/P166/P200	\$250 / 385 / 639
Intel P166MMX/P200MMX	\$550 / 790
Cyrix6x133+/150+/166+	\$158/165/205
72 pin 4M/8M/16M EDO	\$39 / 59 / 115
72 pin 32M EDO	\$210
Intel VX w/256K Pipeline Cache	\$115
Intel VX w/256K PBC MMX	\$135
GA586 VX / HX 512K PBC	\$155 / 169
ASUS T2P4 512K PBC	\$195
ASUS ATX 512K PBC	\$210
TYAN S1470 256K PBC	\$205
TYAN Tomcat III Dual-Pentium	\$315
Intel V440FX ATX	\$350

Printers

Canon BJ30/BJC70 Portable	\$298/389
Canon BJC240/4100 Color	\$230 / 299
Canon LPB460 600dpi Laser	\$420
HP690C/820Cxi/870C	\$390/520/645
HP5L Laser	\$30
HP 5P / 551 600dpi Laser	\$1179 / 3660
Epson Stylus 500/Pro Color	\$375 / 530
Brother HL641 / 730 Laser	\$440 / 505
Lexmark 2050 Color	\$380

Peripherals

Pioneer 12x EIDE/SCSI	\$155 / 220
Sony16x EIDE	\$195
Panasonic 8x / 12x EIDE	\$138 / 160
Acer12x / 18xEIDE	\$155 / 205
Mini 13"/Mid 15" Tower	\$50 / 59
Full-Tower 19" / 25"	\$68 / 100
Desktop Case	\$60
17" ATX Tower	\$110
Windows 95 Keyboard (104Key)	\$22
Fujitsu 8725/4725 keyboard	\$30 / 59
MS Nature Keyboard	\$86
MS Ver2 2B Mouse	\$32
Logitech 3B Mouse	\$32
Qtronix Pro 2B Mouse	\$15

Displays / Sound

14"/15"/17" Monitor	\$230 / 320 / 620
Acer 15" / 17" NI L/R	\$355 / 685
MAG 15" DX1595 / DX15T	\$410 / 470
MAG 17"DX1795 /DX700T	\$825/ 880
NEC 15" C500 / M500	\$480 / 575
NEC 17" M700 / XV+	\$1030 / 1095
Sceptre 17" .28/.26 PnP	\$620 / 670
Sony 15" 100SX / SF2	\$530 / 620
Sony 17" 200SX	\$910
Panasonic P15 / P17	\$480 / 1090
Viewsonic 17" GS / PS	\$830 / 940
Viewsonic21" / 29"	\$2285 / 3195
Optquest 15V655	\$430
Optquest17V775.26 1600x1280	\$850
Trident w/MPEG 1M / 2M	\$49 / 69
Cirrus Logic w/MPEG 1M / 2M	\$49 / 69
ATI 3D 2M w/MPEG	\$145
ATI 3D PC2TV 2M	\$165
ATI 3D Pro Turbo 4M / 8M	\$265 / 385
Diamond STL3D 2M / 4M	\$145 / 195
Diamond STL3DV 2M / 4M	\$295 / 350
Mystique 2M / 4M	\$165 / 215
Millenium 2M / 4M	\$250 / 335
Sound Blaster 16 / 32 PnP	\$86 / 125
Sound Blaster AWE64 PnP	\$250
60W / 120W Speakers	\$25 / 66

We also carry laptop computers!

Come Visit Our Store or Call Us for the Best Price!

102-950 West Broadway, Vancouver, BC (Broadway & Oak)

Tel: (604) 730-1286

Fax: (604) 730-1076

Business Hours: Mon-Fri:9:30am-6:00pm, Sat: 10:00am-5:00pm, Sun: 1:00pm-5:00pm

All Listed Price Are Cash Discounted, Price Are Subjected to Change without Notice.

All things Canadian on CD-ROM

Anybody with an interest in Canadiana is in for a real treat with the 1997 *Canadian Encyclopedia Plus*. It provides access to the complete text of *The Canadian Encyclopedia*, *The Columbia Encyclopedia, Fifth Edition* (for access to international articles and stories), *The Gage Canadian Dictionary*, and a thesaurus.

• • By JEFF BUCKSTEIN • •

The software is user friendly, with a "smart search" that can be organized by simply typing in a topic of interest; the program then scans to locate related articles from the encyclopedia, or, if applicable, one of the approximately 400 articles available from links to *Maclean's* magazine. The software also features a chronological Timeline, with over 3,400 references, from the time dinosaurs ruled the Earth, to the 1996 calendar year, from which related references and articles can be recalled.

Moving pictures

The media browser is perhaps the most exciting aspect of this software. It enables the user to access over 4,200 sundry items, arranged as either maps, graphs, photographs, or audio/visual clips. The film clips date from the First World War to the present day. For instance, you can relive Donovan Bailey's world record 100 metre dash in the 1996 Olympics, or watch Paul Henderson's winning goal against the Soviet Union in 1972.

For entertainment, listen to a comedy sketch from Air Farce, or Wayne and Shuster, or a teenaged Paul Anka singing "Diana." In many instances, voice recordings can be activated over still photographs. For instance, viewers can also listen to the voices of Margaret Atwood and Alice Munro, as they read from their novels.

One tip, though. When installing the Quick Time for Windows option, which activates the multimedia capability, I strongly recommend enacting the calibration (an optional exercise) to ensure your film stays centered on the screen. I failed to do that during my first installation, and as a result, lost the synchronization of my picture on the screen, forcing me to reload the software.

The 1997 Canadian Encyclopedia Plus is an excellent piece of educational software for all ages.

Jeff Buckstein is a freelance writer. You can write to him at jBuckst358@aol.com ♦

POWERCOMP

• VANCOUVER • CALGARY • EDMONTON • REGINA •

WHY PAY RETAIL? Buy from us & SAVE \$\$\$!

Get the best - Do not settle for less or cheap stuff - INSIST on following standards:

- M/B with Triton 2 (HX) chipset by Intel, pipe line burst cache, capable of running 75-200Mhz cpu 4 PCI and 3 ISA slots, PnP flash ROM BIOS, enhanced IDE (up to 4 hard drives), 2 serial ports, fast bi-directional parallel port, supports MMX cpu, (Complete Five years warranty on motherboard)
- Western Digital hard drive - Fastest and most reliable (most expensive too)
- EDO RAM, 72 pin, (Lifetime warranty on memory)
- CSA approved Tower case with 230W power supply
- 5 Yrs system warranty (3 yr parts & 5 yr labour)



TRITON 2 (HX) CHIPSET
Faster than VX

We will build the sytem as per your need - so call us for any specification
All of our packages carry same kind of warranty described above

VALUE PACKAGE

- Intel Pentium 120MHz
- 512k pipeline burst cache
- 16 MB EDO RAM
- 1.3 GB hard drive
- 1MB PCI video card
- 104 Fujitsu keyboard
- 1.44 floppy
- 3 Button mouse & pad
- 8X CD ROM drive
- True 16 bit stereo sound card
- Two amplified speakers • Windows '95--OSR2
- 33.6 Data/Fax modem
- Mini tower 230w P.S. - CSA approved
- 5yr warranty - 3yr parts & 5yr labour
- 14" monitor-NI .28 dp - Proview

\$1399
\$51/m

PERFORMANCE PACKAGE

- Intel Pentium 150MHz
- 512k pipeline burst cache
- 32 MB EDO RAM
- 2.1 GB hard drive- Western Digital
- 2MB PCI video card w/ MPEG
- 104 Fujitsu win'95 keyboard
- 1.44 floppy
- 3 Button mouse & pad
- 10X CD ROM drive
- True 16 bit stereo sound card
- Two amplified speakers • Windows '95--OSR2
- 33.6 Voice/Data/Fax modem - SVD
- Mini tower 230w P.S. - CSA approved
- 5yr warranty - 3yr parts & 5yr labour
- 15" monitor-NI .28 dp, digital cntrl, flat scrn - Proview

\$1795
\$65/m

POWER PACKAGE

- Intel Pentium 166MHz
- 512k pipeline burst cache HX chipset
- 2.5 GB hard drive - Western Digital
- 32 MB EDO RAM
- 104 Fujitsu win'95 keyboard
- MS mouse & pad
- 1.44 floppy • Windows '95-OSR2
- 2MB ATI 3D Expression Video card w/MPEG
- 12x CDROM drive
- AW 32pro with wave table Sound
- Power spkrs - 72w PMPO & Microphone
- 33.6 voice/data/fax modem - SVD
- S/Mini Tower Case 230w P.S. - CSA approved
- 5yr warranty - 3yr parts & 5yr labour
- 17" monitor .26 dp - Sceptre

\$2549
\$92/m

New

THE DREAM MACHINE

- Intel PentiumPro 200MHz
- 256k internal L2 cache
- 64 MB EDO RAM
- 4 GB hard drive - Western Digital
- 104 Fujitsu win'95 keyboard
- 4MB Matrox Mystique
- 1.44 floppy • Windows '95-OSR2
- MS mouse & pad
- 16x CDROM drive
- AWE 64 Sound Blaster
- Power spkrs - 72w PMPO & Microphone
- 33.6 voice/data/fax modem - SVD
- Mid Tower Case 230w P.S.-CSA approved
- 5yr warranty - 3yr parts & 5yr labour
- 17" monitor .25 dp, multiscan - SONY

64MB EDO

\$4295
\$155/m

Buy a computer from us and get these incredible deals ...

- | | | | | | |
|---------------------------|-------|------------------------------|-------|-----------------------------|-------|
| • Lotus Smart Suite '96 | \$ 79 | • 10 CD 48 titles pak | \$ 59 | • MS Office-Pro 7.0 | \$399 |
| • Grolier's encyclopedia | \$ 29 | • MS home entertainment pack | \$ 99 | • Corel-WP Suite 7.0 | \$ 99 |
| • P166 to P166 MMX - add | \$170 | • P166 to P200 - add | \$300 | • P166 to P200 MMX -add | \$475 |
| • Upgrade to ASUS MB -add | \$ 70 | • Upgrade to USR modem -add | \$ 85 | • Spkr U/G to 240w from 72w | \$ 29 |

Toll Free: 1-888-299-6662
www.powercomp.ca

VANCOUVER

101 - 1089 E. Kent Avenue, Vancouver, BC V5X 4V9
Ph: 301-1146 Fax: 301-1148
Business Hours: Mon to Sat - 10am to 6pm

REGINA

1239 Winnipeg Street, Regina, SK S4R 1K1
Ph: 359-6055 Fax: 359-6885
Business Hours: Mon to Sat - 10am to 6pm

CALGARY

#2, 3419 - 12 St NE, Calgary, AB T2E 6S6
Ph: 250-6662 Fax: 250-6629 Toll Free: 1-888-299-6662
Business Hours: Mon to Sat - 10am to 6pm

EDMONTON

10043-81 Ave Edmonton, AB T6E 1W7
Ph: 413-7525 Fax: 438-0390
Business Hours: Mon to Sat - 10am to 6pm

Corporate, Government, Education & Computer resellers are welcome. Please fax for quotations.

Opening soon in Winnipeg, Saskatoon & other cities - watch for date & address

LEASE TO OWN based O.A.C. & 36 month term NO down payment required, same day processing

• Prices based on Cash/Interac/Draft • Add 3% for credits • Price & availability may change any time • Powercomp is a registered tradename •

Updating your software

• • By STEVE BAIN • •

In today's software world, keeping pace with software improvements usually means hunting for updates and patches.

Updates normally result from two things: new or changing technology (read: new operating systems) or inadequately tested programming code (read: sloppy software) allowed into production for one reason or another. Updates are rarely "gifts" from developers for being a good customer. And, for those users who think they'll simply load their software and sit pretty for years, think again. Today's computer technology developers have reduced yesterday's years to months or even weeks.

Update, upgrade, patch, or build?

There was a time in the early days of mass-market software when updates were generated from massive amounts of negative feedback (complaints) about a program's inadequacies. Today, it's not uncommon to see a program update—or maintenance release—shortly after the software hits the shelves. While full versions are measured in full increments (version 1.0, 2.0, and so on), maintenance releases are often measured in decimal increments.

Occasionally developers will release software numbered in a half- or third-version increments (i.e., *Pagemaker 6.5* or *Quark XPress version 3.3*). These are referred to as "upgrades" instead of updates, and, unfortunately, upgrades require a purchase.

Other companies continue to develop their software even after the final code has gone out the front door to production, and hide their maintenance handiwork by disguising updates as production improvements in the form of new software "builds." A build is the most recent version of code put into production. Recent software builds can often be obtained directly from the developer, and usually take the form of what is referred to as a "patches."

How is updating done?

If you lack Web access, software patches can be as simple as a toll-free phone call away, but the key is in knowing if an update is even available. Without an Internet connection, you could end up waiting weeks or even months for a disk to arrive by regular mail. For Web-equipped users though, nearly all updates are made available through software company sites.

Downloading a patch is usually a simple task for minor software changes that involve short download times. The trouble is in finding them. Companies don't generally like to broadcast fixes to their products and the links to finding updates are often deeply buried in technical-support areas of Web sites.

Patches are nearly always compressed using some form of compression software utility and can be expanded without having to own the utility. Self-extracting files are often the case for updates and usually involve file formats such as SIT for Mac or ZIP for Windows software. Once

these compressed files have been downloaded, it's usually a simple procedure to expand them into a new folder and launch the update executable.

What's in store?

The ability to distribute software updates or revisions electronically via the Internet or intranet networks is an appealing prospect for developers. It allows quick and easy distribution of software changes. Perhaps in the very near future, having to hunt for patches on the Internet will become a thing of the past.

Roughly a year ago, a company called Marimba was formed by four ex-Sun Microsystems employees, who were key players in the invention of the Java programming language. Marimba has since masterminded new technology they call "Castanet," which is attracting the attention of major developers such as Netscape, Corel, Lotus, and Macromedia.

Castanet works similarly to Web-site and browser technology, but with a slight twist. The software uses a "transmitter" to push data out online and uses a "tuner" to receive it. Castanet uses "channels" to which users can tune. The beauty of this channel/tuner exchange is in its time-saving compression and Java-based code.

Picture this. While working, you select a certain menu item—something like "Check for Updates" or CTRL+SHIFT+U. Your software automatically connects to the Castanet channel,

tells the channel who you are, checks for any updates, and asks if now is a good time. From there, updating is seamless and automatic, including logging off.

For developers and users the implications are far reaching. Marimba technology enables developers to get much closer to their customers and vice versa. Rather than ship a maintenance release every three months, the software can either be prompted by the user to check for updates on a particular server and check for updates at specific time intervals. Or the server can "push" updates directly to clients as they become available.

A secondary but intriguing aspect of Marimba's technology is its ability to provide "pay-per-view" online services. Essentially, this means that users can "order" data from a server in small or large chunks. Features could be made available that weren't there when software was initially released, and users could be charged online for these "extras."

Whether or not this technology spreads to affect users of code-heavy applications remains to be seen. In light of its increasing popularity, however, Marimba will undoubtedly be coming to a computer near you.

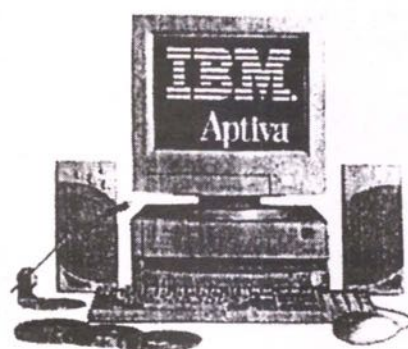
For more information on Marimba, Castanet, or other products, visit <http://www.marimba.com/>

Steve Bain is a high technology writer in Vancouver, Canada. Send news, product tips, or comments to Steve@helix.net ♦

TANGENT COMPUTERS
天鈞電腦公司

購買IBM良機
Buy **IBM** Aptiva™

Please call for latest price



◆ Features Depends on Models
◆ 1 Year Warranty on Monitor, Keyboard, Mouse, Speakers

◆ Features: Intel Pentium 120-200 MHz

1. 8/16MB RAM Expandable to 128MB
2. 1.0/1.6/2.0/3.2 GB HD
3. 28.8K Voice Fax Modem
4. Communications Centre
5. MPEG Video Card
6. 4X/6X/8X CD-ROM
7. 14"/15"/17" IBM Monitor
8. Lots of Software



- Standard 3 Year Express Exchange Warranty
- Reliability and Quality You Can Trust
- Easy to Learn and Use for All Human Beings

We offer competitive prices on all IBM Computers

IBM and Aptiva are registered trademarks of the International Business Machine Corporation (Prices subject to change without notice!)

2221 West Broadway, Vancouver, B.C. V6K 2E4 (Free underground parking)

Business hours: Tue.-Sat. 10:00am-6:00pm, Sun: 12:00am-6:00pm; Mon.: Closed

**Tangent Multimedia
Pentium 133 System
for \$2458**

- ASUS Latest Pentium Triton 2 Main Board, P55T2P4
- 16MB EDO RAM, 512 K Pipeline Burst RAM
- 1.7 GB HD, US Robotics 33.6K Int Fax/Voice VI Modem
- 2MB PCI 64 Bit SVGA Card
- SB 32 Plug & Play Sound Card
- Japanese 12X Speed CD-ROM
- NEC XV15+ 15" NI L/R SVGA Monitor
- 19" Case/230 Watt PS
- Logitech Mouse/Pad
- Windows 95 Preloaded
- 1997 Encyclopedia CD Bundle
- Powerful YAMAHA M-15 speaker
- 2 Years Parts and 3 years Labour Warranty

**FREE upgrade
to 32MB EDO RAM
w/system purchased
continues**

SPECIAL FEATURES:
NEC XV15+ MONITOR &
USR 33.6 VI Internal Modem
ASUS Triton 2 Main Board

Prices subject to change without notice

Quality & Service is our Name!

NEC

Intel Processor dealer

**hp HEWLETT
PACKARD**

Authorized dealer

Canon

Authorized dealer

Tel: (604) 737-9918 Fax: (604) 737-9928

Conducting business on the World Wide Web

New Business

Paul Lima

Much has been written about the Internet and World Wide Web as a place where one can gather information on virtually any topic, including running a small business. Millions of individuals have set up home pages on the Web and both small businesses and major corporations (banks, trust companies, beer companies, car manufacturers) have Web sites.

There are over 300,000 Web sites, 40,000 of them commercial, and the numbers are growing exponentially.

There are over 300,000 Web sites, 40,000 of them commercial, and the numbers are growing exponentially.

Setting up an effective Web site involves renting space on a server or from an Internet service provider (ISP), designing the site, writing copy and creating graphics, coding pages to display properly in Web browsers, uploading files to your site, and maintaining the site.

Whether you do it yourself or hire a WebMaster, this process takes time and money and begs two questions: Is there a market out there? Are businesses making money off Web sites?

In Canada, 6.5 million Canadians are online, with 63 per cent of Canadian homes having some sort of access and more than a third of Canadians having tried it. Canadian Web surfers are divided into a 60/40 male/female ratio. The average age is 35 years. They have an above-average income, education, and credit status. All in all, what might be the perfect consumer niche.

While the number of Net users is a small fraction of consumers at large, businesses can cut communications costs and create product awareness on the Net.

Forget the phone

Rather than playing telephone tag or paying long-distance charges for phone calls and faxes, many small businesses use e-mail to communicate with customers, vendors, and suppliers. Their Web sites enable potential customers to access answers to frequently

asked questions about products, services, pricing, and support. Web sites can also lower promotional costs—as long as a company's potential target market is Web savvy.

Examples? Amazon.Com, the world's largest bookstore, does not have one physical store. It does, however, have 1 million books in an online catalogue. CDNow.Com had a basement start, but tripled its revenues to \$6 million last year and had 18 per cent net (no pun intended) margins.

Software Online Inc. is located in Brampton, Ontario, but the company sells computer software and hardware across Canada. The company (located at <http://www.softonline.com/>) offers 20,000 computer products.

"For us, coming to the Net wasn't a supplement to other business methods. It was what the business was designed for," says Jon Dearden, a partner in Software Online. "Using the Internet will allow us to build a big business, not a big headquarters."

That reality of conducting business on the Web also includes export opportunities, since the Web transcends political borders and geography. Dearden has sold software to consumers as far away as the UK and New Zealand.

Competing with everyone

Due to free trade and global competition, companies have to be "good enough to stand up in the world market, not just compete in their own back yard." And since they have to be globally competitive to survive in their local market, Blaber suggests they look at exporting as a means to expand their business, especially if they have developed niche-product or -service expertise.

Exports will not occur just because a company has e-mail and is able to set up a Web site, Blaber cautions. "High tech is a help, but it's not a substitute for building relationships and understanding cultures."

On Trac Inc. has created a Web site (<http://www.ontrac.yourku.ca/>) to help smaller businesses establish the relationships Blaber refers to.

"Many Canadian products and services don't reach foreign markets because Canadian companies are not trade ready," says David Sadleir, On Trac's president.

The On Trac site introduces businesses to the import/export process. While there is a great deal of free information available, On Trac charges a monthly fee for access to the full database and to list companies by product or service category so businesses in other countries can make e-mail contact with potential Canadian partners.

So there it is: the world at your fingertips. Just don't expect to conquer the intricacies of marketing on the Web in a day.

Paul Lima (tiko@direct.com) is a freelance writer specializing in high-tech and communication issues. ♦



Multimedia Rex Discovers a tasty Brontosaurus Snack.

MULTIMEDIA TECHNOLOGIES

A NERD FRIENDLY ZONE

365 WEST BROADWAY

PHONE 872-0300

ALL SOFTWARE LISTED IS NEW AND FULL VERSION

NERDZ ZONE

Applicware	94
C++ Super Library	18
Caldera Open Linux Base	79
CICA (4 CD's)	22
Free BSD 2.1.6	28
HOBBS OS/2	22
Linux mousepads, t-shirts, Bumper stickers etc	Call
Linux Developers Resource	29
Linux in a Nutshell Book	24
Linux Journal Magazine	6
Linux Programming Book	49
Linux Toolkit	34
Monster Media 17	29
Night Owl 22	28
Project Gutenberg	29
QRZ Ham Radio	19
Red Hat Linux Official 4.1	48
Running Linux 2nd Ed Book	34
Simtel DOS	22
Simtel Windows	22
Visual Basic Tools	22
Wabi (run Win 3.1 apps)	199
Win95.com (4 CD's)	24

PRODUCTIVITY

Adobe Illustrator 4.1	56
Borland C++ Ver 4.5	39
Borland Delphi Win	39
Borland Paradox Win 5.0	39
Corel Draw 7 Academic	199
Corel WP Suite Academic	69
First Aid 97	39
Linux Red Hat 4.1 Official	48
Lotus SmartSuite Win 95	99
MS FrontPage	149
MS Office Pro. Academic	Call
MS Project Academic	239
MS Publisher 97 Academic	99
MS Visual Basic Pro Academic	199
MS Visual C++	199
Norton Anti Virus Academic	Call
Pagemaker 6.0 Academic	189
Pagemaker 6.5 Academic	Call
Photo Finish	24
Print Artist 3.0	29
Print Artist 4.0	39
Quickbooks Deluxe 4.0	39
Quicken Deluxe 5.0	29
Quicken Financial Suite	39

KEWL GAMES

11th Hour	39
3D Ultra Pinb. Creepnight	29
7th Guest	24
Aces Collection	29
AD & D Core Rules	79
AH-64D Longbow	54
Art of Flyfishing	59
ATF	49
Beast Within	33
Caesar 2	24
Civ 2 Scenarios	39
Civilization 2 Toolkit	24
Civilization II	54
C&C Tactical Operations	24
Command&Conquer Tools	24
Daggerfall	58
Decent 2 Infinite Abyss	39
Diablo	49
Dragon Lore II	54
Duke Nukem 3D English	44
Duke Nukem Atomic	59
Duke Nukem Plutonium	39
F-22 Lightning	54
Flight Unlimited Win 95	59
Flying Corps	59
Full Tilt Pinball	23
Grand Prix 2	55
Heroes of Might & Magic II	53
Kings Quest 7	22
Kings Quest Collection	32
Leisure Suit Larry Col	55
Leisure Suit Larry 7	55
Lighthouse	34
Links LS	52
Lode Runner on line	29
Lords of Realm 2	58
Magic The Gathering	54
Master of Orion 2	58
Max	55
Mech Warrior 2	29
Mech Warrior 2 Win95	29
Monty Python Holy Grail	48
Monty Python Comp Waste	34
Myst (Win 3.1)	34
Nascar II	54
NBA 97	54
Need For Speed SE	47
NHL 97	57
Phantasmagoria	34
Phantasmagoria 2	54
Police Quest Collection	34
Privateer 2	69
Quake Full version	55
Quake Toolkit	22
Red Alert	62
Road Rash	52
Silent Thunder A-10 II	32
Spycraft	23
Star Control 3	54
Star Wars archives vol II	69
Super EF-2000	54
Swat	34
Syndicate Wars	53
Tie Fighter Collection	39
Time Lapse	54
Titanic	54
Tomb Raider	51
Torrens Passage	27
Trophy Bass 2	54
Under a Killing Moon	34
US Navy Fighter 97	59
Virtual Karts	34
Virtual Snooker	29
Warcraft	49
Warcraft 2 Battle Chest	64
Warcraft Expansion Set	28
Wizardry Nemesis	54
You Don't Know Jack	29
Zork Nemesis	29



CHILDREN'S ED.

AlgeBlaster 3	34
Amazing Writing Machine	42
Animals of San Diego Zoo	14
Arthurs Birthday	29
Arthurs Teacher Trouble	29
Bernstein Bears Get in a fight	29
Bernstein Bears In the dark	29
Comptons Childrens Ency	22
Crayola Art Studio	18
DK Encyclopedia of Science	43
DK History of World	43
DK The Way Things Work	47
DK Ultimate Human Body	43
Dr Suess ABCs	26
Dr Suess Green Eggs	26
Elmos Preschool	31
Fatty Bear Birthday Surprise	29
Freddie Fish #2	48
Geometry Blaster	34
Harry & Haunted House	24
Incredible Machine 3	31
James Discovers Math	29
Just Dad & Me	35
Just Grandma & Me	21
Just Me and My Mom	35
Kid Pix Studio	44
Kid Works Deluxe	44
Kids Phonics II	34
Little Monster at School	24
Logical Journey of Zoomdini	29
Math Blaster II	34
Math Blaster Jr	39
Math Rabbit Dlx	22
Math Workshop	22
Mixed up Mother Goose	19
Pajama Sam	49
Playroom	29
Putt Putt Goes to Moon win/mac	29
Putt Putt Goes to Zoo win/mac	49
Putt Putt Joins Parade win/mac	29
Reader Rabbit 2 Dlx	44
Reader Rabbit 3 Dlx	44
Reader Rabbit's Reading Lib 1	22
Reading Blaster Jr	34
Reading Blaster	34
Reading Galaxy	29
Science Blaster Jr	34
Sheila Rae the Brave	24
Simfarm	24
Simtown	24
Spell It 3	34
Spellbound	16
Thinking Things 1	24
Tonka Construction	35
Tortoise & Hare	24
Treasure Galaxy	21
Where in world Carmen jr	29
Word Blaster	34
World Atlas, Mavis Typ, Chess	19

REFERENCE

American Heritage Talk Dic	22
Better Homes Cooking	19
Bodyworks 5.0	22
Chinese Dictionary	24
Complete Guide to Drugs	24
Complete Chef	24
Complete Guide Symptoms	24
Comptons Atlas	23
Compton's Cook Book	24
Comptons Encyclopedia 97	39
DK Ultimate Sex Guide	49
Groliers Encyclopedia 97	22
Infopedia Version 2.0	22
Land Designer 3D	24
Learn to speak Chinese	24
Mavis Typing, Chess & Atlas	24
Mosby's Medical Ency	22
Quick & Easy Spanish	19
Triple Play ESL English	28
Triple Play French	28
Triple Play Spanish	28

CD ROM KITS

CD-ROM	
80 Watt Speakers	
Soundblaster 16 PnP soundcard	
Comptons 97 Encyclopedia	
Chessmaster 4000	
Mavis Typing	
US Atlas World Atlas	

12 Speed Kit	\$269
8 Speed Kit	\$249

HARDWARE

500 Watt Subwoofer system	129
200 Watt Tower Speakers	59
120 Watt Speakers	49
80 Watt Speakers	29
Creative Labs SB16 PnP	83
Creative Labs AWE32 PnP	119
Jewel Cases (10/pack)	6
Panasonic 12X	144
Samsung 8X	124

JOYSTICKS

Gravis Game Pad	19
Thrustmaster T2 Driving Kit	169
Wingman Xtreme	54
Wingman Lite	34

Monday - Thursday	10 to 6
Friday	10 to 7
Saturday	10 to 6

Due to space constraints the .95 on listed prices has not been shown.

This price list supersedes all previous published price lists and is subject to change without notice.

Reseller Inquiries Welcome

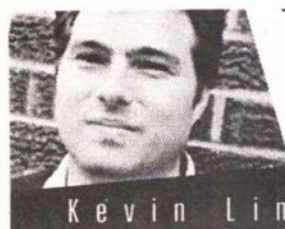
You must be currently engaged in the resale of computer related products and have a PST #.



Dealer Price List Available

Email us at: Multimed@axionet.com

The fix is in!



OS/2 Ready

Kevin Linfield

With Lotus and MGI waiting frantically on the side, IBM has released the first collection of fixes for OS/2 Warp 4.0.

Since FixPak 1 was just made available as I write this (the end of February), I have not had time to download and install it myself. Initial reactions from other users have been positive overall. It fixes many of the small annoyances (like allowing you to change your default image viewer), but a few users claim that it breaks removable drive support (such as Iomega's ZIP drive).

FixPak 1 can be found on IBM's software server (<ftp://ftp.software.ibm.com>) in the `/ps/products/os2/fixes/v4warp/english-us/xr_m001` directory.

Upgrading woes

With the release of Merlin, my home computer system was becoming quite taxed. We are way past the point of a 486 DX/66 with 16 MB of RAM being state of the art. But before I rant about new hardware choices, let me state that I still think 486s (and yes, even 386s) still have their place. If all you do is word process-

ing and maybe a little modeming, don't believe the hype about upgrading your system—it probably won't be worth it to you.

For me, I need to review the latest and greatest and I found that my system limited me when playing games (lots of games!) or running the latest software suites. I decided to focus on what I needed ASAP and chose RAM. Lots of RAM. I now have a more-than-comfortable 64 MB of RAM (nice!) coupled with a used Pentium 90 motherboard. Since I now have PCI slots, I wanted to upgrade as many of my old ISA cards as possible. I switched my video card from an ISA ATI Mach 32 (with 2 MB of VRAM) to a PCI ATI Mach 64 (with 2 MB of DRAM).

With the hardware upgrade, I hoped that I would not have to reinstall any operating systems. In preparation, I had switched all of them back to VGA before I swapped motherboards and video cards.

Once the new hardware was in, OS/2 refused to boot, giving me a TRAP error every time. Oddly enough, the other operating systems worked fine. I ended up reinstalling OS/2 4.0 and am pleased with the new system. I have more than 32 MB of free memory and the machine is significantly more responsive than before.

Of course, all was not well. The Mach 64 video drivers that came with the base operating system would not work. Merlin's video

detection chose the wrong card, and even after I corrected it, I was unable to get things working properly. The solution was to use the drivers on the Device Driver CD-ROM and follow instructions carefully. Merlin uses a different video subsystem than Warp 3, so in many cases the old drivers do not work. As for a video speed difference, I don't notice any improvement. Oh well, at least my machine is significantly faster now!

Linfield's List better than ever

My favourite OS/2 freeware page (<http://www.to2.org/freeware/>) has been enhanced and is now bigger and better than ever. I've added "The Internet's Favourite OS/2 Freeware" page, a collection of freeware OS/2 programs that anyone can suggest. With my goal of producing the biggest and best source of OS/2 freeware, please check it out and e-mail me your suggestions of what freeware you would like to see.

The sun shines on Sundial Systems

Sundial Systems Corporation announced that they have acquired DBExpert for OS/2. DBExpert is an end-user relational database product that works with several different database formats. It is claimed to provide an environment for building and utilizing personal and departmental database applications using tables, queries, forms and reports—without the need for traditional programming.

DBExpert joins Sundial's Clearlook word processor, Mesa 2 spreadsheet, and Relish PIM. I'm guessing that we will see an integrated suite in the near future.

For more information and pricing, check out <http://www.sundialsystems.com/> or call (562) 596-5121.

Warp Server information

Newport Technical Services has produced The Warp Server Resource, a collection of information, software, and links to important material useful for those implementing Warp Server on their network. Check it out at <http://www.warpserver.com/>

Freeware of the Month

With interest rates so low, thousands of renters are realizing that they can own their own house for less than what they pay now. Mortgage Workbook 1.0 for OS/2 by Canadian Garnet Ulrich lets you see the relationship between your principle, interest rate, payment, and amortization period. Supply any three of the four and it will calculate the final parameter. Free to use, it can be found on the Internet FTP site <ftp://hobbes.nmsu.edu/os2/wpsutil/mortbk10.zip>

Kevin Linfield is a consultant and freelance writer. He can be reached via e-mail at linfield@torfree.net ♦

MapleOak Computer Solutions



Microsoft



NEC

TOSHIBA



brother.

COMPUTER ASSOCIATES

IBM ESTEEM

Pentium® chip 133 (Windows NT Certified)

16 MB EDO RAM, 1.2 GB EIDE Hard Drive
14" SVGA Color Monitor, NI, .28
1 MB PCI Video Card, 3.5" Floppy Drive
Keyboard, Logitech Mouse, MiniTower Case

\$1118

lease \$34/month

Options:

Intel MMX-166/200 ... \$1472/1758

AMD k5-75\$958

Pentium® chip 150/166/200 ...\$1178/1328/1598

Pentium Pro Chip 200

\$2299

lease \$76/month

32 MB EDO RAM, 2.0 GB EIDE Hard Drive
15" SVGA Color Monitor, NI, .28
1 MB PCI Video Card, 3.5" Floppy Drive, Keyboard,
Logitech Mouse, ATX Tower Case

Options:

Pentium® Pro 150/180 ... \$1651/2119

Dual Pentium® Pro 200...\$3599

Customize Your Dream System

Dos/Win/Win95 +\$50/75/125

Cardinal 33.6 FAX Modem ...\$135

12x CD-ROM/SB16/Spks\$269

MS Encarta 97 CD Bundle\$98

16MB to 32MB+ \$109

32MB to 64MB.....+ \$218

15"/17" Monitor+ 99/400

SONY 15" SX1/SF2+ \$315/395

ATI 1/2MB Dram+ \$50/70

ATI 3D2/4mb SDRAM.....+\$145/180

Matrox2/4mb+\$185/270

1.6/2.0/3.2 Gb HD.....+ \$30/70/170



5 years warranty on labor
2 years warranty on parts.
Third year parts warranty, add \$50.
First year on-site warranty, add \$70.

CA Accpac Plus Software (CA Authorized)

G/L, A/P, A/R, WSM, Payroll, Lanpak, Inventory Control,
Sales Analysis, Job Costing, Retail Invoicing, ScanPac etcavailable
FREE next-day shipping in Downtown area

Notebook (call for updated price)

Toshiba 200CDS P-100/8MB /810/DSTN/6x CD.....\$2269

Toshiba 430CDT P120/16MB/ 1.3GB/11.3" TFT/10x CD.....\$3883

Toshiba 740CDT P166MMX/16MB/2.1GB/13.3TFT/10x\$8588

AST J55 P133/16MB/1GB HDD/11.3" TFT/33.6 faxModem...\$3888

IBM, HP, NEC, TI, Sceptre, Digital, Canon, Acer, call

Upgrade Your Systems

Memory Upgrade (Can't run some programs? slow? Out of memory?)

4/8/16/32 MB (72).....\$29/56/111/220 1/4 MB 30 Pin.....\$12/35

16/32/64mb DIMM (Mac).....\$125/260/530 Notebook/printer SIMM.... call

Hard Drive & Tape (Not enough space to install new programs?)

1.2/1.6/2GB IDE ... \$279/299/339 1/2/4 GB SCSI HD ... \$360/480/1349

3.2/4.0/5.1 GB \$449/549/669 HP Colorado 800MB.i/e.....\$175/225

Iomega 1GB Jazz int/ext. \$529/629 Syquest 230MB SCSI/Par.....\$389

Internet Upgrade (Information Super Highway?)

Cardinal 33.6 Modem/V ... \$135/195 PCMCIA 33.6/MegHertz\$268/319

USR 33.6 Modem/Vi, int.....\$155/175 ISDN Modem, int..... \$288

Internet Junction IPX to TCP/IP Gateway (LAN to Internet)\$388 up

Multimedia Upgrade (Access to CD-ROM information?)

CD-ROM 12x/16x.....\$149/189 12x CD-ROM/SB16/Spks..... \$269

16 Bit Sound Card\$39 4x/12x SCSI CD-ROM.....\$169/259

SB 16/32/AWE32.....\$89/155/259 Microphone (Stand on)\$12

Monitor & Video Card

Proview 14"/15"/17".....\$239/339/639 Matrox 2/4 SGRAM 2/4mb\$190/235

ViewSonic15/17/20"\$495/879/1935 S3/CL PCI 1MB/2MB \$55/75

SONY 15/17/20" \$565/1180/2280 ATI 1/2MB Dram \$99/109

NEC xv15/17/xe21".....\$549/1149/2529 Diamond 2/4mb vram ... \$255/315

Printer (Make your job look nicely)

HP 400c/690c/870c.....\$265/399/649 Canon BJ240/4100/4550 \$229/318/598

Brother 730/760DX..... \$439/559 Epson Pro \$519

HP LaserJet 5L/6p \$549/1019 HP LJ 5/5N/5M..... \$1799/2120/2485

Motherboard Upgrade (Slow? spend lots time waiting?)

Pentium-133/166/200...\$359/559/718 6x86-/150/166/200...\$295/355/482

Intel MMX-166/200 \$568/858 AMD K75/100/133 ... \$195/245/275

Pentium® Pro 150/180/200 w/ATX TowerCase\$728/1195/1355

TV tuner(watch TV on screen).....\$199

QuickShot GamePad/joystick.. \$14ea

1.44MB Panasonic FDD.....\$32

Family Doctor\$10 BC White Page. \$88

800 Letters \$58 Phone Book \$35

King Quest VII..... \$33 7th Guest..... \$22

1.44mb Disks (10).. \$4 PS/2 mouse\$19

CD Cleaner\$9

* Pentium is a registered trademark of Intel Corporation.

Network Support

NOVELL Authorized
Windows NT Certified

Network Operating System:

IntranetWare 4.11 (5/10/25/50/100).....\$858/1169/1888/4800/6488

GroupWise5 (5/10/50) \$688/3235/6268 ArcServe 6. (25u) \$645

ManageWise v2.1 (5/10/25/50 user).....\$728/1209/1838/2499

WinNT4 Server 5/10/Workstation/Upg/Lic.\$949/1178/289/188/58

*Windows For Workgroup 3.11/Windows 95/Add-on..... \$85/125/65

IBM OS/2 Warp Server V4.0.... \$799 Lantastic 7.0..... \$125

Network Hardware:

3Com Ethernet IIIB, ISA TB 1+/5+/20+/100+.....\$143/125/118/109

3Com Ethernet IIIB, PCI TB 1+/5+/20+\$155/145/125

3Com Fast Ethernet 10/100 PCI TB (Cat 5 UTP) 1+/5+.....\$185/175

Intel EtherExpress Pro/10 ISA TB 1+/5+/20+..... \$159/139/119

Intel EtherExpress Pro/100 PCI TB 1+/5+/20+..... \$194/179/169

NE2000 Compt. ISA/PCI.....\$49/88 SMC EL 16T ultra \$129

Xircom/3com PC Card .. \$185/228 Pocket LAN adaptor \$159

HP JetDirect Printer Server .. \$438 Adaptec 2940 SCSI \$278

3Com Remote\$1100 8/16 Port Hub\$165/265

3Com Switch Hub (12) \$2790 APC ups 600/900VA\$338/478

HP SureStor 2/4GB,i.. \$1099/1199 SmartPrinter Starter Kit ..\$215

Cable 25/50/100/500/1000' (BNC or TB)..... \$15/25/35/120/220

Terminator/T-connector/Connector \$5 each

AST Manhattan S6200 Pentium Pro200/32mb/2gb/8x CD\$5448

HP Netserver LC5/Pentium 133 32MB, 2 GB 4x CDROM... \$3899

HT Dual CPU Server P133, 64MB, 2*2 GB SCSI,8x CDROM \$3198

HT Server P133 64MB, 2*1GB SCSI, 8x CDROM..... \$2437

Acer A-OPEN Server P-133, 32MB, 2 GB EIDE, 8xCDROM.\$1458

Standby Server, Fault-tolerant for any server\$3799

Internet Junction IPX to TCP/IP Gateway (LAN to Internet).....\$388 up



Service Contract available

Shopping On-Line

<http://mindlink.net/maple/shop.htm>

Maple Oak Computer Solutions Inc. (Since 1990)

Suite 500, 1281 W. Georgia St. Vancouver, BC, V6E 3J7 (New Location)

Tel: (604) 681-3770

Fax: (604) 681-3739

BBS: (604) 681-4408

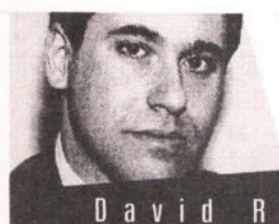
Lease

FaxBack: (604) 681-7771

E-mail: info@maple-oak.com

Internet: <http://mindlink.net/maple>

Gil's big shoe



Mac
Rant

David Rosen

Gil Amelio has finally let another shoe drop—and it's a very big shoe.

In a dramatic bid to reverse its losses, Apple's current boss says the company would cut 4,100 employees, temps, and contractors—nearly a third of its work force—and scale back its Macintosh line of computers and software. Amelio says these changes are necessary to adjust its expenses to rapidly falling revenues.

To pay for the job cuts, Apple says it will take a total of US\$250 million in charges over three fiscal quarters, starting with a \$155 million charge in the fiscal quarter ending March 31. Apple expects revenue for the second quarter (January 1997 to March 1997) to fall about 22 per cent to \$1.6 to \$1.7 billion, down from \$2.2 billion in the same quarter a year ago.

But there's more bad news. To continue to

cut expenses, Apple will drop several product lines and products. Incredibly however, Apple's Newton handheld product line will remain intact for now—probably because nobody else wants it. In a prepared announcement, Amelio said he foresees no more senior management departures, despite the company's continual organizational restructuring.

Bye bye, comrade

Many cynical Apple watchers would agree. After all, since Amelio has conducted a Soviet-style purge of the entire senior management team over the past year, who else is left to go? Worse still, Amelio has brought back Steve Jobs, a man whose petulant and combative leadership style alienated many early Apple employees and whose decisions nearly caused the company to tailspin out of control.

Last December, Apple stunned the high-tech world by buying Jobs' NeXT Software and using its technology as the basis of Apple's new operating system, later named Rhapsody. The US\$430 million deal also returned co-founder Apple Steve Jobs, who has gone on record as saying he's more interested in running his computer animation company, Pixar, than in getting involved

in the day-to-day operations at Apple.

"We've made the right decision to focus our energies, and these decisions—I am absolutely convinced—will put us on the road back to health, and we'll be looking at a very different situation over the next few quarters," Amelio explained in a prepared statement.

Apple has also reiterated its commitment to deliver Rhapsody in 1998 and to continue to enhance the Mac OS. Certain Mac OS-based technologies, however, such as Open Doc, Cyberdog, Open Transport, Game Sprockets, and Mac OS Development Tools will receive less R&D money for future growth. Mac OS delivery schedules will also be changed. While the Mac OS 8 is still scheduled for introduction in July 1997, Apple plans only one full OS release in mid-1998 (code-named Allegro), and not two full releases as previously announced.

Back on the circuit

Another encouraging sign of life at Apple is the company's exhibiting at important trade shows. First, January's Comdex in Vancouver; then February's Computer Fest in Toronto (which Apple has always avoided); and finally March's Apple Music & Multimedia Show, held in conjunction with

the Canadian Music Week. All three shows were well attended and Apple's seminars at Computer Fest were standing-room-only, despite the lousy weather. Kudos go to Neil Buchanan, Linda Grant, Patricia Heath, Bruce Hough, Lani Mercurio, Janine Whalley and all the other Apple people who make these shows happen.

Mac OS gaining market share

Through all the bad news, comes some more good. La Jolla, California-based research firm Computer Intelligence (CI) is reporting that the Mac OS's market share in the US dealer channel rose during the end of last year and continued this trend into January. CI attributes this trend to the success of Mac-clone vendors in taking market share from the PC platform. The study shows the PC platform with 92 per cent market share in November 1996, down to 89 percent in January, 1997. The same study shows the Mac OS with 8 per cent in November, 1996, up to 11 per cent in January, 1997.

Hear distant footsteps or quiet tiptoes? Send your rumours, tips and comments to MacRant@aol.com. Please note that due to the volume of mail, individual questions cannot be answered. ♦

Benchmark Computers

MOTHER OF ALL MOTHERBOARD SALES!

Speakers, Joysticks
& Colour Scanners
just arrived!

PENTIUM MOTHERBOARDS

Takes up to P166 CPU,
On board controller, 256K cache

\$99⁰⁰

SUPRA 14.4 EXTERNAL MODEMS

\$49⁰⁰

6 Month Warranty on Everything Sold!

System Prices

	P75	P90	P100	P120	P133	P166
Case, M/b, CP4, 16MB, 1GB HDD, 1MB Trident PCI	\$700	\$745	\$779	\$839	\$869	\$1045
W/CD ROM & Sound	\$745	\$819	\$845	\$899	\$945	\$1095
w/32 MB RAM	\$839	\$909	\$939	\$999	\$1039	\$1189

(monitors not included)

2627 Kingsway Vancouver, BC V5R 5H4

Phone # 451-5333 www.rapidexmall.com/BC/BC/Benchmark

Students need real-world skills



Power Learning

Sandra Mingail

Flip to the classified section of your favourite daily paper. You're inundated with ads for systems analysts, developers, project managers, and telecommunications specialists. In fact, career-growth soothsayers predict an ever-expanding demand for computer-technology professionals. Come spring convocations, high-tech headhunters descend on popular Canadian campuses to scoop up bright, motivated young computer and engineering graduates. Starting salaries for a career in the computer industry easily hits \$30,000 and above. According to a survey by William M. Mercer Ltd., computer-software industry pay increases for 1997 lead the pack for salary-scale increases.

Yet with all this demand for qualified individuals, there is still a lack of qualified post-secondary graduates who make computers a career choice. I find this puzzling. If I were back in university now, I'd be blazing a path to the nearest faculty of computer science.

I think part of the problem, is that, until recently, many secondary institutions were content to simply go along their merry way, offering the same diet of courses with little regard for what's happening in the real world. Many students land in university, and are forced to make career decisions with no clue of marketable work skills.

Provinces poised for change

Thankfully, things seem to be coming around—albeit it's a slow shift. Back in February, Ontario's Ministry of Education and Training kicked off a five-year plan to improve the delivery of technology programs. This new visionary Round Table consists of parents, school principals, educators, information-technology leaders, and business execs.

Ontario Education Minister John Snobelen, states: "We want to ensure that the education sector remains in stride with developments and that our students graduate with a high degree of computer literacy." Let's hope the five-year plan includes a concise to-do list and timeline and not merely endless political rhetoric.

British Columbia has also committed to better distribution of technology dollars and hardware distribution to its public schools. Most BC high schools are equipped with LANs, while half of their elementary schools are networked. The province's Community Learning Network connects schools to each other via e-mail and online conferencing.

Yet most BC high-school students still spend their time learning keyboarding and word-processing skills. More sophisticated skills, such as spreadsheet use and CD-ROM research or multimedia use are still in the minority.

One of the province's more innovative projects places classroom teachers for short-term placements in high-tech industries. Teachers then return to the classroom with a better understanding of industry-required skills.

Nova Scotia's Ministry of Education and Culture hosts a wide area network called Ednet. This educational gateway connects the province's colleges, public libraries, museums, and public schools. The popular Workplace Experiences program for educators allows a teacher to spend a week in the workplace. Knowledge of current business practices and skill requirements are then shared with colleagues and students.

Pioneering schools

Although provincial education ministries are making forays into improving computer technology exposure and instruction, it's a laborious, committee-intensive process. The fact of the matter is, for the teacher struggling to make ends meet, there's very little curricular guidelines or support in this area. In fact, Ontario's last curricular guideline update in the area of high-school technological studies dates back to the late 1980s.

So what is the pioneering educator to do? Many boards are establishing corporate partnerships. About a year ago, Ontario initiated its Cyber Arts program. Two other Ontario schools run parallel programs that combine skills in computer-based graphics, 3-D animation, industrial design, and special effects.

Cyber Arts partners include Kodak Canada, Silicon Graphics, Alias-

Wavefront, Apple Canada, Rogers Cable Systems, Soft Image, the University of Waterloo, and Sheridan College. Staff and students benefit from direct interaction with practicing professionals in cutting-edge industries.

The program's first group of Senior students is currently taking part in a mentorship co-op program. One student is working on a CD-ROM with a multimedia development firm.

Gordon Graydon Secondary School boasts the International Business and Technology Program. Community and education leaders initially identified key skills required for the next century. Problem-solving and teamwork rated high. But they also discovered that employees want graduates who are familiar with a broad range of technologies and who know how to apply technological solutions to workplace challenges. Flexibility in the growing, open international markets was another key requirement.

Gordon Graydon's program is funded by the school system as well as the local business community. The school actively seeks profit-making opportunities to subsidize the need to keep hardware and software current.

A group of Gordon Graydon students exercise their multimedia skills while producing a software package for the region's public-health department. With fewer health officials available to visit high schools, electronic information on AIDS and teenage health issues will be distributed via touch-screen kiosks displayed in school settings. Planning is also underway to market electronic courseware to other school systems.

Today's student needs exposure to and practice with everyday work skills—information access through multimedia tools and networks, analysis of data using spreadsheets and databases, communication through e-mail, content creation using authoring tools, and understanding of the cultural implications of technology.

To accomplish this, educators need current technology and ongoing training. Education budget cuts don't help the cause. So schools are increasingly sprouting entrepreneurial arms to help finance programs and connect with the outside world. This is fine, as long as educational goals remain sound and curriculum is not diluted to absorb corporate agendas.

Sandra Mingail is a computer educator and consultant. Contact her at mingail@direct.com ♦

MICROSEA System Corp.

美高善電腦系統

Standard Pentium® Computer System:

- Pentium® Intel-Trition chipset Mainboard
Intel P5 75-200Mhz CPU with Fan & Heatsink
Built-in PCI/IDE & Fast I/O Controller
256K Pipeline Burst Cache on Board
- 16M EDO RAM
- Panasonic 1.44M (3.5") Floppy Drive
- 1.6GB EIDE Hard Disk
- PCI VGA Display w/2M (MPEG) Card
- Mid Tower case w/CSA Power Supply
- Fujitsu 104 Windows 95 Keyboard
- Serial Mouse w/Mouse Pad
- 15" .28mm VGA NI Monitor

*5-Year Labor & 2-Year Parts Warranty of Computer System

Multimedia Specials

8X / 12X CD Rom & Speaker & 16 Bits 3D Sound Card Pnp	\$188 / \$218
Creative SB AWE 64 PNP	\$258
Creative SB 16 PnP	\$78

Hard Disk Special

1G / 1.2G EIDE	\$228 / \$248
1.7G / 2.5 EIDE	\$258 / \$328
4.0G	\$458

Video Card

Trident 9680 PCI 1M	\$48
S3 3D Virge 2M / 4M w/MPEG	\$88 / \$128
ATI 3D+2M / 4M w/MPEG	\$108 / \$188

110-4940 No. 3 Road
Alderbridge Place
Richmond, B.C. V6X 3A5
Tel: (604) 273-9233
Fax: (604) 273-9203

STORE HOURS
MON-FRI: 10:00-6:00
SAT: 12:00-6:00
SUN: CLOSED

售後服務 保證滿意

Easter's Special!!!

Intel P5-133	\$1,299
Intel P5-150	\$1,369
Intel P5-166	\$1,526
Intel P5-166MMX	\$1,699
Intel P5-120MMX	\$1,999

POS System

WinPos-3000 Business Solution	
Metrologic 971 Laser Scanner	
Compact Cash Drawer	
Epson POS Printer	\$999

Modem Special

Smacklink 33.6 Data / Fax / Voice	\$118
USRobotics 33.6 Full Duplex	\$168
Accex 28.8 Data / Fax / Voice	\$88

We bit your prices, please ask!

* Contract Service: System Maintenance, Network Service, Programming, POS

All logos & trademarks are registered trademarks of their respective companies. Prices subject to change without notice.

Sales • Service • Repairs • Upgrade • Networking • Software

WE OFFER YOU TOTAL SOLUTIONS & AFTER SALES SERVICES!

B.C.'S BEST

Free classifieds

BUY & SELL ON LINE

Hard-copies at
newsstands everywhere.

<http://www.buysell.com>



ISDN

Easy and
Affordable

Power-up your LAN with ISDN Internet Access

SOHO Skyway

soar the SOHO Skyway

128 kbps Internet Access
482 - 1222

email sales@sohoskyway.net

.... www.sohoskyway.net

B & C Computers

6919 Russell Avenue, Burnaby

(1 block East of Imperial & Kingsway)
Phone: 437-6919 Fax: 437-3011

Regular store hours: Mon-Fri, 10am - 6pm

- We buy & sell, new & used computer items
- VGA/SVGA Monitor repairs from \$80
- Monitors from \$125; Printers from \$45
- 486 DX-4 100 \$550; 486 DX-2 66 \$475

Compuchange Computer Show

Sunday, April 20th, 1997 10am-4pm

Firefighters' Club

6515 Bonser Avenue, Burnaby
(behind The Bay, Metrotown)

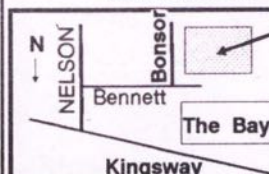


Table Rental:
6 ft. - \$29, 8 ft. - \$39

Admission: \$2.00,
Children 12 yrs. &
under Free.

For info. phone Kimberley at: 438-1094 (10-6),
438-6114 (eve/weekend) or 816-7731 (show day).

Marketplace

Lotus Domino

Powered by Notes

Danby Systems

TEL (604) 681-2210 FAX (604) 929-0339
<http://www.symbolic-research.com/danby>

The Works

Female and Male Trainers
**Computer Training
and Support**

- How to use a computer efficiently
- Internet
- E-Mail
- Microsoft Applications
- Windows 95 & 3.11
- Macintosh
- CorelDraw
- Web Pages
- Installation
- Support

We come to your Home or Office - it's more personal.

☎ 736-9650 Pager 735 2692

CUSTOM IDENTIFICATION

\$5 OFF WITH THIS AD

WWW.REAL-ID.COM

ANY
COUNTRY/STATE/PROVINCE

BURNSIDE@REAL-ID.COM

MICRO TROUBLES??

Quality Service Since 1977

RUSH JOBS OUR SPECIALTY
AUTHORIZED WARRANTY DEPOT

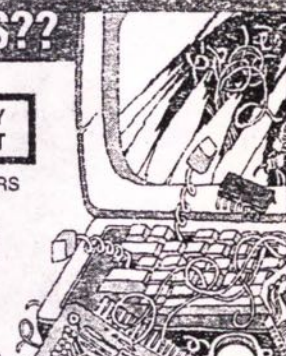
- DESKTOP & NOTEBOOKS REPAIRS
- CARRY-IN & ON-SITE SERVICE

278-0783

24 HOUR SERVICE 686-7650

MINITRONICS

OF CANADA LTD.
110-3320 JACOMBS RD., RICHMOND



Data Recovery Labs

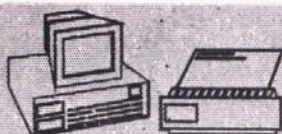
DOS • MAC • Novell • Xenix
UNIX • OS/2 • WIN NT
Hard Drives • Diskettes • Tape
Syquest • Bernoulli • Optical

Highest success rate, even with the most difficult
situations. No recovery, no charge! We're your best
chance of getting your lost data back.

Download our Data Recovery Info Kit www.datarec.com/infokit.html

1-800-563-1167

ABLE COMPUTER RENTALS LTD.



Ask us about

RENT TO OWN
or LEASE

We Rent IBM Compatibles, 286, 386,
486 & Most Brands of Printers

Tel: **(604) 521-6904** Fax: 525-4060

440 CANFOR AVENUE, NEW WESTMINSTER, B.C. V3L 3C9

INKJET WHOLESALER

The best wholesale, dealer and
retail prices for compatible inkjet car-
tridges, refills and ribbons in Canada.

681-7109

At 50% - 75% Savings.
Consignment orders available for dealers.

GLOBAL INK

There's a dealer near you...
Burnaby, Downtown, Richmond
SFU, North Vancouver, UBC,
West End and many more.



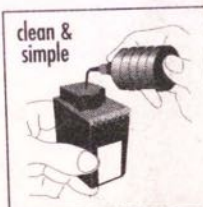
RONALD WARD
Tax Consultant



VALLEY INCOME TAX SERVICES
#201-14685 - 108TH AVENUE
SURREY, B.C. V3R 1V9

Specialists in Small Business and
Personal Taxation

CALL (604) 589-8421



Refill Your InkJet Cartridge & SAVE 50-80%

As low as \$2 per refill!!

HP®, Epson®, Canon®, Lexmark®, Apple® ...
Black and colour refills are available for
every inkjet and bubblejet printer.

- Money-Back Guarantee
- Tech Support
- Low-Priced Cartridges Available

Call: **1-800-581-3475**

NOMI COMPUTER SENSE 416-661-7200

Speedy
Delivery
Throughout
Canada

電腦的選購

作者：林啓清 (JimLin)

一、前言

筆者本身經營電腦業，惘惘會有客戶前來詢問有關電腦方面的問題？而客戶最惘惘的就是：

- 1.我應該要買怎樣配備的電腦？
- 2.我只需要很簡單的功能，目的只是透過Internet講電話？
- 3.為什麼透過Internet講電話效果不好？
- 4.透過Internet可以看到對方的影像嗎？
- 5.為什麼我的Internet這麼慢？
- 6.我的數據機是33.6K，但每次都連到115K？

以下就是筆者最惘惘使用的回答：

1.這得視您打算用電腦來做什麼而定？不同時期，所購買的電腦配備一定不一樣。目前最惘惘的應該是Pentium 166+32MB RAM這樣的電腦。

2.所謂簡單的功能，指的應該是用電腦來打打字，印印東西？

至於透過Internet來進行通訊這件事，不管從那個角度來看，它都不屬於簡單的功能。由於是進行通訊，所以必須透過電腦把我們的語音即時數位化及將資料壓縮起來，然後將此數位資料傳給在彼端的另一方。另外那方，在收到資料後，則進行反向處理。這種即時語音數位化及資料壓縮，都會使用大量的CPU時間及記憶體，如果您所使用的CPU不夠快或記憶體不夠多，那麼電腦就會自動採用其它的補救措施，不一定會當機，但是速度變慢是期待的？

如果使用好一點的音效卡，卡上本身就有處理語音數位化的功能，這樣就可以少去叨擾CPU，CPU就會有時間去處理其它的事情，也能對於通訊有一定的幫助？

至於音效卡好不好，一般是很難從價錢或卡的外觀看出來(照惘惘講，越貴的卡應該越好)，只有用過才知道？卡本身的語音處理功能不強，可以透過音效卡的驅動程式來加以模擬，而這種模擬就會用到大量的CPU時間。

3.講電話的效果不好，除了像上面第二點所講的原因之外，也與上線的時間有關？上線的時間是屬於當地的連線尖峰時間，效果都會比較不好？

所使用的音效卡本身不支援Full Duplex(全雙工)功能，也會讓您的網際通訊受到很多困擾？就算您買Creative的音效卡，也不見得就會支援全雙工(很多電腦零售商不知道這件事)？切記！您的音效卡有沒有支援全雙工功能，是您網際通訊能不能順利的關鍵之一？

4.當然可以看到影像，而且黑白

的效果會比彩色的好？
一樣是老問題，影像這種東西也牽涉到資料壓縮，所以CPU如果負擔太重，對方看到您的影像支離破碎，也是可預期的！

5.這除了跟您上線時間及ISP有關係之外，也許您當時的連線速度有關係？

目前的高速數據機都有自動降速的功能，當電話線路不好時，數據機會自動降速連接。所以，當您的數據機與您的ISP間的連線速率只有4800BPS時，速度當然會慢呀！如果您確定您目前與您的ISP間的

連線速度是您數據機的最高速(14.4K的最高速當然是14.4K，28.8K當然就是28.8K囉)，但是速度總覺得很慢，那極有可能是網路塞車或是您的ISP本身的問題囉！至於33.6K的數據機如果連不到33.6K的高速，您也不必太擔心，因為目前能每次都連到33.6K的人幾乎沒有...；33.6K的數據機能連到31.2K都要很偷笑了！最低的底線是19.2K，低於這個速度，建議您切斷電話線，重新再與您的ISP連一次(一般都會改善)？

6.我只能說您的數據機沒有設定好？

大部份的數據機用戶都不知道怎麼設定數據機(有80%的電腦零售商也不會)？一部設定好的數據機能正確回應目前所連接的速率。如果您的Windows 95告訴您目前數據機與ISP的連接速度是115200、57600、38400，那表示您的數據機沒有設定好？目前最快的數據機是33600(33.6K)，56K(x2)的數據機則還很少見？

二、電腦銷售商的把戲

大部份的人買電腦都是會找便宜的買，或者是殺價？懂一點的人，會比較同一個規格，然後找最便宜的買，不一定需要電腦商的服務？不懂的人，則會亂比價錢，然後亂殺價，最後也不知道電腦裡面裝的是什麼？

在加拿大買東西，如果您沒有原始的發票，不管是退貨或修理都會成問題？如果您跟他買電腦(或零件)的那家公司結束營業，您向他買的那些東西可能瞬間就變成孤兒，只能禱告那些東西千萬不要故障...；一味的殺價，只會讓自己買到自己認為自己聰明，但卻與原先不同的東西，當然您自己不會知道...！

許多電腦商在您買東西前是一付必恭必敬的樣子，等您買東西去找他服務時，愛理不理，理了也不見得能解決您的問題？

差不多每個時間都會許多商品會有促銷，但大部份都是在清庫存品(也就是賣很久還賣不出去的東西)，只有少部份是真的新東西。也很多促銷品都已經是停產的東西，如果您不慎買了這些東西，而這些東西又恰好有問題，您可能會送修等很久，或者折騰您許多的時間，您才會發現您無法搞定？

所以，找一家能夠信賴的電腦公司反而才是最重要的？要讓一般的讀者瞭解電腦商是怎樣對待可憐的消費者，並不是那麼容易？

以下的電腦比較表，也許可以讓讀者們有一點概念吧？

臺灣電腦顧問公司

每月空運來加拿大，歡迎批發、零售(種類繁多)

- 中文書籍雜誌
1. Windows 95 快速入門(初學者必備的書籍)
 2. Internet 輕鬆上網(玩Internet必備的書)
 3. 凱訊光碟月刊(每期皆附有600MB各類程式)
 4. 看圖例學PowerPoint (PowerPoint用戶必備)
 5. 精通Windows NT (NT用戶必備工具書)

專業銷售各種家用、商用電腦軟硬體系統

電話：(604) 657-4919 (Mon-Sat, 10:30-18:30)

Mail: jimlin@intergate.bc.ca OR http://cads.com.tw

中文輸出 中文字庫 多國文字 彩色打樣 彩色影像輸入

直接全面支持華康 Dynalab，
文鼎 Arphic，優質 Monotype
等中文字庫

加西唯一擁有整套52款華康
中文激光照排機字庫

能在同一檔案上同時輸出
多種語文(中文、日文、
英文、法文)

最新熱昇華中文及多國文字
彩色打印及揭頁式和重疊式
打樣服務

高解像度激光
滾筒式掃描機

All trademarks & registered names are properties of their respective owners.



優質
保證

140-3757 Jacobs Rd.,
Richmond, B.C.
Canada V6V 2R3
Tel: (604) 278-8621
Fax: (604) 278-8621
Modem: (604) 278-8621

ACCA ACCESS PRODUCTION INC.

新

印前系統



PageMaker 6.0

附六種多功能軟件

新增功能：

多重主版頁面 Multi-Master Pages

放大工具高達 800%

群組和解散群組 Group

鎖定物件的定位 Lock

對齊和分散物件 Align Objects

多邊形工具 Polygon Settings

遮色片 Marks

補漏白 Trapping

Drag-and-drop

中文

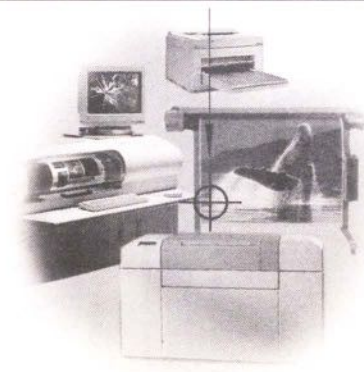
手寫
輸入
PEN POWER
蒙恬筆硯

Pen Power for Mac V 3.1

- 全螢幕書寫，跳出書寫框外，字體大小，位置不受限制
- 連續書寫一次辨識
- 同時辨識繁簡體中文字
- 個人化人工智慧辨識技術
- 辨識率可高達百分之百

Pen Power for PC V 4.1

- 獨有筆跡精靈，手稿編輯，真跡重現
- 完全支援最新中文視窗，利方多元系統支撐環境及任何中文視窗系統
- 創新人工智慧校稿系統自動修正錯誤
- 「事後辨識」不再是獨家擁有的技術
- 鼠筆共存，不需切換



eMail: acca@accapre-press.com

不負責任的電腦公司

使用非 INTEL (原廠) CPU

由於與 INTEL CPU 內微碼的些微差異，偶而會有軟體無法執行的問題。

使用 75MHz 舊型淘汰主機板。
主機板採用非原廠晶片
使用舊式 DRAM Cache。
減少 Cache 容量 (128K)
使用一般慢速顯示卡

此將會導致將來升級的困難。
有時在增加界面卡時，會有不相容的情形發生。
會使主機速度變慢。
Cache 越少，主機的處理速度越慢。
使用 ISA 界面卡採 16Bit 設計。
在圖型環境 (如 Windows 或 OS/2 等) 下螢幕的反應極為遲緩。
由於只是 Half Duplex (單工)，所以在網路網路電話時，無法同時講話。
印表機埠的輸出速度較慢。
使用高速度 MODEM 時，會有資料遺失的錯誤發生。
在遊戲或需要重複讀取光碟片資料時，速度會較慢。
在重複讀取硬碟資料時，速度會較慢。
散熱不良，不耐重壓。
14.4K 傳輸速度較慢，且已屬淘汰機種 (28.8K 也淘汰在即)。

負責任的電腦公司

完全採用 INTEL CPU

由於採用 INTEL CPU 所以絕對不會有軟體無法執行的問題。
使用 200MHz 以上新型快速主機板將來升級較不容易發生困難。
往往在增加界面卡時，不會有不相容的情形發生。

主機板完全採用原廠晶片
使用最新技術 Pipeline Cache
完全擁有 256K 或 512K Cache
使用高速度顯示卡
使用 PCI 界面
使用正廠音效卡 (全雙工)
使用加強型高速印表機埠
使用加強型高速通訊埠
使用內含 256K Cache 之光碟機
使用內含 Cache 之高速度硬碟機
使用 Acer 原廠外殼 Acer
使用 33.6K 高速 MODEM

能增加主機的處理速度。
Cache 越大，主機的處理速度理論上會越快。
界面採用 64Bit 設計
在圖型環境 (如 Windows 或 OS/2 等) 下螢幕的反應明顯增快。
由於是全雙工，所以使用網路網路電話時，可以同時講話。
印表機埠輸出速度較快，尤其執行像 LspLink 這類軟體時。
特別為使用高速 MODEM 所設計，能維持資料的正確性。
在遊戲或需要重複讀取光碟片資料時，能增加讀取速度。
在重複讀取硬碟資料時，速度會明顯增快。
散熱良好及主機外殼堅硬，能保護電腦內部元件的安全及壽命
傳輸速度極快，為目前主流機種。

有的不肖廠商會使用 Remark 的零件 (CPU、RAM)，尤其是 CPU 上面蓋有風扇，很少有人會把風扇拿開檢查 CPU 是否 Remark (也不見得看得出來)。當您的電腦裡面有 Remark 的零件，您的電腦可能會三不五時就當機，或者您會發現有些程式無法執行？

很多人認為 Case 不重要，只是一個鐵殼罷了！事實上，Case 是整部電腦裡佔了極重要的地位，不好的 Case 也許就是您電腦會不穩定的原因哦！

三、結語

賠錢生意沒人做，所以當您很容易就達成殺價時，是否應該仔細想想，是否真的佔到了便宜，還是反而吃虧更大呢？我有一位朋友，在溫哥華當地的一間華人電腦公司買電腦，後來因為

電腦出問題，電腦公司也一直無法處理好 (大約一個月)，心一橫就想退貨 (在加拿大是合法的吧)？

沒想到那家電腦公司竟然開口要客戶支付千餘元 (那部電腦才買兩千餘元) 才肯接受退貨？仔細想想，租一部電腦每個月的花費也不過五十餘元，就算是租，也不用付千餘元吧？後來經過討價還價，以五百元左右成交 (分明是吃人)！我朋友雖然心有不甘，也只能自認倒楣，誰叫他誤上賊船呢？

華人總是抱著息事寧人的態度，有時反而會讓自己吃了不少悶虧！如果您還是抱著買電腦跟買電器一樣的心態，那麼筆者只能祝您好運囉……

如果您有任何批評指教，歡迎與筆者聯絡 (jimlin@intergate.bc.ca)。

快達

Instant Solutions
Tel: (604) 273-0383

Demo: 中文軟件使用示範週

Date / 日期: 29, 30 / 3 月 (March 29 & 30)
5, 6, 12, 13 / 4 月 (April 5, 6, 12 & 13)
八佰伴中心二樓 Yaohan Centre (2nd flr), Rmd

Another Showroom Location: Netlink
5068-B Kingsway Tel: 451-8682

Professional Interactive Chinese

多媒体自學中文軟件
發音清楚且容易操作

No Chinese Background Required!

Professional Interactive Chinese comes with voice recognition, flash cards, games and many other features. Incorporates two years of Mandarin training taking you to the intermediate level.

Asian Dragon Writer 圖龍軟件

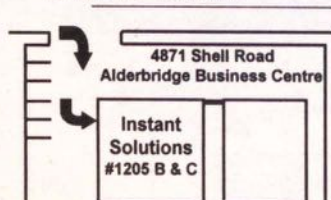
3 Languages in 1 CD-ROM!

Many New Powerful Features including Dragon Translator, 16 True Type Fonts and Internet Capability.

直譯功能佳可整篇文件或一段句子翻譯
更有學習中心幫忙學習中日文字
有十六種字形及三種語言：中、日、韓

周末照常示範請先來電預約

Shell Road



Alderbridge Way

April Tax Break!

No GST & PST on
GoGo Pen
Asian Dragon Writer
Professional Interactive Chinese
TwinBridge, RichWin and more ...

四月份軟件免稅

Instant Solutions' Interactive Learning Lab

Many new Asian Software Programs available! Free demo daily from 10 - 6 p.m.
快達多媒体自學教室 示範時間由早上十點至六點 - 預約電話: 273-0383

Chinese



ScotiaMcLeod 豐業證券

2nd Fl., 1495 W. 11th Ave. Vancouver, B.C. V6H 3Y6

Tel: 737-3503; Fax: 737-3524

免費投資理財資訊服務

投資顧問: Thomas Klein; William Ying

<http://www.webhaven.com/money>

本公司將提供一年期之投資理財資訊傳真服務。免收費用，閣下可收到最新市場動態，理財經驗以及投資策略之報導。您只需將以下表格完成後傳真或寄回本公司即可。

☒ 請勾選屬意之項目：

- | | |
|--------------------------------------|---|
| <input type="checkbox"/> 最新每月利率報導 | <input type="checkbox"/> 高收益債券投資組合 (銀行定存替代方案) |
| <input type="checkbox"/> 金融市場現況報導 | <input type="checkbox"/> 每月十大股票表現報導 |
| <input type="checkbox"/> RRSP 投資入門簡介 | <input type="checkbox"/> 每月十大共同基金報導 |

姓名: _____ e-mail: _____

住址: _____

電話 (公): _____ (宅): _____ 傳真: _____

請郵寄，傳真或以電子郵件 (tomk@webhaven.com) 回覆此一良機，切勿錯過



恒基中文電腦公司 BIS Information Systems

#203-124 E. Pender Street, Vancouver B.C. V6A 1T3

Tel: (604) 930-9108 / 341-0180

Fax: (604) 688-8916

Email: bis@cwin.com

<http://www.cwin.com/bis/>

Office hour: Mon-Sat., 10:30~6:00 * Free parking 1 hour

MultiMedia Asia Software Supply Centre 軟體銀行·排版系統

Asia Computing, Many Choices

- * Twinbridge 46 Fonts version!
- * Dragon Writer Software
- * 精品漢筆 + 雙光碟版
- * 中英文會計軟件
- * Hand Writing Device, GoGoPen, Postmouse 5.0
- * Learn to speak Chinese
- * MS Chinese Window, World, Excel 95
- * Japanese, Korean, Asia Software
- * 雙橋 46 字專業版
- * 博士筆、精品漢筆 5.0 多功能版
- * 中文 window 95 + 32 套字庫 = \$390.00
- (徵求各區推廣專員) (Dealer Welcome, Technical Support!)

Computer System and upgrade

- * Pentium 120 System ----- \$1100.00
- * Modem 33.6 Supra ----- \$138.00
- * 12 x CD Rom ----- \$169.00
- * PC to TV Card ----- \$188.00

〔電腦教室〕

Computer Classroom

- * Internet, HTML
- * Photoshop
- * 中文打字速成
- (每週一、三、五，下午 1:00, 6:00 起上課，請先報名)
- Office Service, Chinese Typesetting, Translation Services

〔Internet Update〕

- * Internet 廣告設計制作
- * 金庸小說交流網更新
- (<http://www.cwin.com/world/jinyong/>)
- * V18 成人談天室介紹
- <http://www.cwin.com/V18/>
- * 遊戲、光碟、心情、笑談

〔Game Video CD 供應站〕

New! 遊戲光碟產品 <http://www.cwin.com/V18/>

- * CDR 光碟備份服務 (CDR Backup Services)
- * 圖文 Scanner 服務

(日文 VCD 動畫)

* 妖獸教實外傳、同級生特別版、3x3 風之谷、下級生、風之谷、魔法色少女

(GAME)

* 卒業旅行、金瓶梅、水滸傳、天龍八部、皇帝、俠客英雄傳 3、吞食天地 II、賭神、Diable

(電影 VCD)

* 火燒紅蓮寺、與鴨共舞、玉蒲團 2、國產 007、日文影片系列

精品漢筆 GoGo Pen Tablet V5.0

Handwriting Recognition System

GoGo Pen V5.0 精品漢筆

GoGo Pen is a handwriting recognition system for users with Chinese character knowledge. To those who do not have Chinese knowledge yet, they may not be able to fully utilize this wonderful tool. However, one can always enhance their Chinese characters by using GoGo Pen when they study the language.

最新版 V5.0 功能簡介：

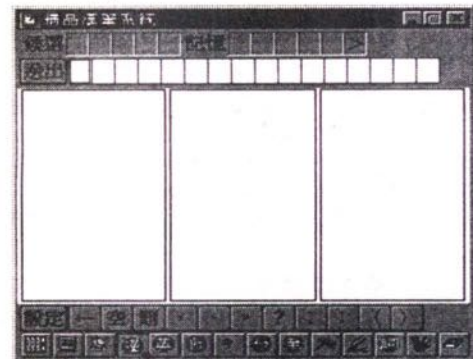
是市面唯一含標準國語及粵語發音之手寫系統。

全新設計的操作介面，功能及使用方法皆一目了然，完全符合人性化的需求。使用者可自由增加或刪減手寫面版：

1. 多格手寫視窗：

書寫格數可自定，並可自行改變視窗大小；在小方框裡的書寫範圍有一個、兩個或三個方格可供選擇切換，寫完一個字可以馬上在第二格內寫第二個字，如是者到第三格上；為方便初用漢筆的朋友，書寫文字時留在方格內，所以不會誤觸。

漢筆更可提供詞庫聯想及記憶聯想。可針對一些常用的詞句做整句輸入，節省輸入的時間。使用者可自行修改，新增，刪除詞句等，可增加數千個定詞庫。



同時使用者可調整筆跡顯示的速度和保存個人筆跡模式。在多格書寫區內可儲存最多 99 個字。

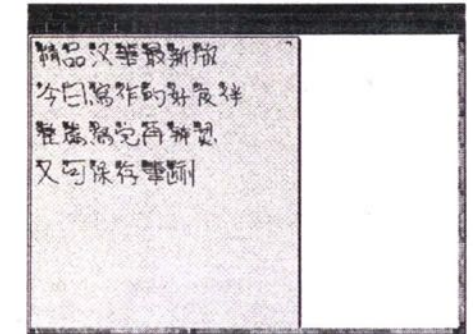
Free Write 自由書寫

2. 全螢幕書寫：

書寫範圍在整個螢幕上，書寫文字不會受到範圍限制，也不會有書寫盤底蓋到畫面的問題。提供全螢幕多格書寫，使用者可自由書寫，不受書寫區限制。

3. 自由書寫：

提供全螢幕自動切字功能，使用者可以整句寫完，再一起辨識。



可不限字數一直書寫，寫完之後再進行辨識，所以不只是單字，甚至可以整篇辨識，手跡原稿可以儲存及列印，而且原稿也可以加入圖形。

漢筆直接辨識中文繁體、簡體、草字、俗體字等、日文平假、片假字、辨識速度快，不用分段辨識。除了提供中文字外，本系統亦提供英文大小寫、數字、鍵盤符號等辨識功能。精品漢筆的手寫筆可同時與滑鼠並存使用，以方便使用者於 Windows 中的各種操作。

用筆者可用簡易的符號或圖形來代表一個字或一串字。

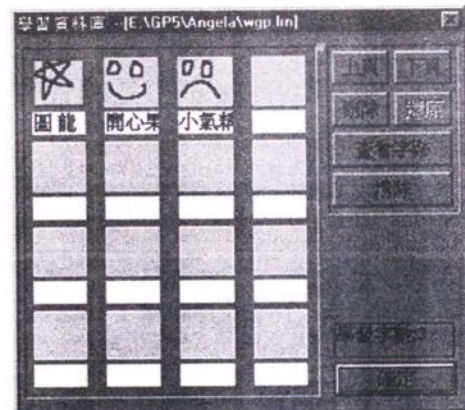
Information provided by Angela Yiu of Instant Solutions' Interactive Learning Lab

多媒体自學教室

(E-mail: isolutions@Lynx.bc.ca)

Personalized Macros 自制私用符號

此功能的使用，通常發生在造新字和私人的專用詞庫。

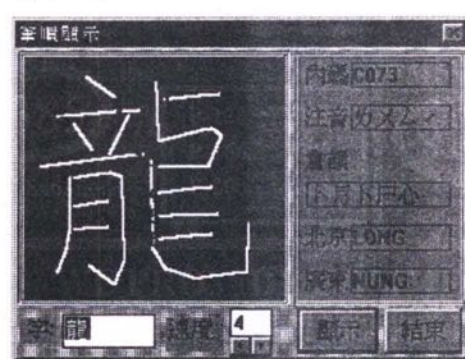


漢筆提供筆跡簽名程式，讓簽名直接送到應用軟件上。

漢筆手寫系統提供符號鍵盤，可直接使用鍵盤上的各種符號。

專業筆順教學程式（中華字坊）：

97 中華工具坊內含「標準楷書」的互動式多媒體中文文字教學軟體。有助小朋友們學寫中文字、大朋友們學拼音和倉頡等輸入法。一邊一邊發出聲音，國語或粵語任擇。



Systems Compatible with GoGo Pen V5.0:

精品漢筆可支援繁簡中、英文 Windows 3.1/95 + 雙橋 TwinBridge、國龍 Asian Dragon Writer、中文之星 ChineseStar、倚天 DOS、國喬 DOS、CCDOS、UCDOS、RichWin 北大方正等中文軟件系統。

Free Features 精品漢筆最佳拍檔

手寫電子郵件（搶先版）：可直接用精品漢筆手寫辨識系統在 E-mail（電子郵件）上書寫收、發信件。

• 雙橋 Asian Viewer 亞洲窗：可於網路上直接讀取中文（繁、簡體）、日文、韓文等亞洲語文，領先掌握潮流。

• 雙橋視窗中文伙伴（實用版）：從英文視窗跨越中文繁體最簡便的介面，可直接閱讀大陸碼的電子郵件 E-mail

• 雙橋視窗日文伙伴（實用版）：從中英文視窗結合日文最佳解決方案，也可以在視窗內透過直接和日網際網路連線，完全無障礙。

• 中華字坊：專業筆順教學，內含多個常用字標準楷書筆劃教學、造詞、國粵語拼音。

• 精品漢筆展示及教學課程：多媒體教學光碟內含動態、語音教學系統，縮短學習時間，30 分鐘讓您立即上手使用。中文發音系統（國語、粵語）：可結合手寫，邊寫邊發音。

System Requirement 系統需求：

DOS 版：PC 386 Compatible or above
WIN 版：PC 486 Compatible or above
10 MB Hard disk space
2 MB RAM (minimum)
DOS 3.3 and above
Windows 3.1 or 95



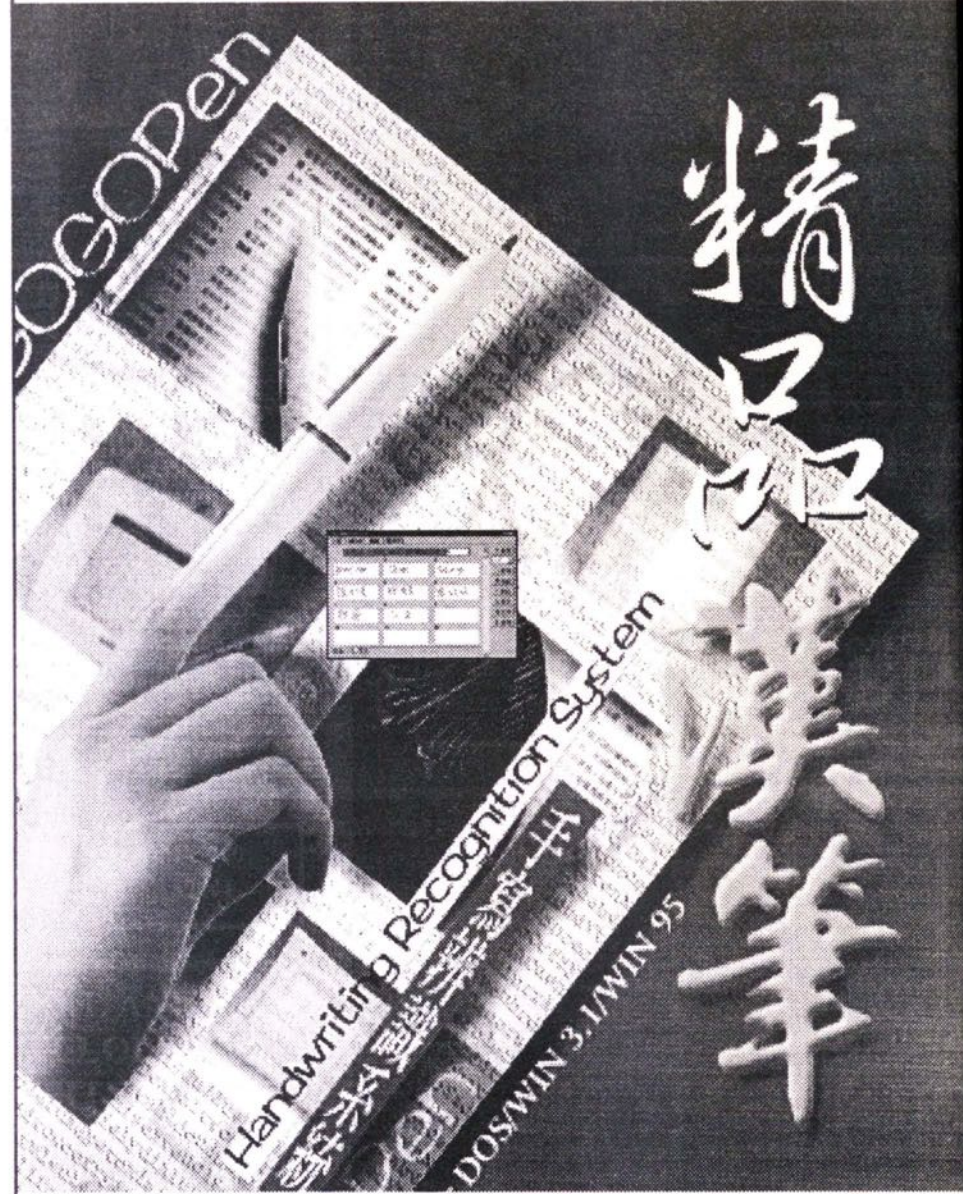
ComPro Information Inc.

基峰資訊加拿大總代理

3506 West 41st Ave., Vancouver, B.C., CANADA V6N 3E6

Tel: (604)263-0730

Fax: (604)263-0750



Comes With New Features

解決您所有中文輸入的困擾提高電腦效率就從精品漢筆開始

GoGoPen enhances your computer performance and solves your Chinese input problems

- 搭配任何軟體，支援環境最齊全
- 超強混辨
- 整篇辨認
- 連續書寫
- 手寫發音系統（純正國語、粵語發音系統）
- 專業筆順教學程式（獨家首創）
- 超大型立顯式文字、筆跡暫存區（獨家首創）
- 增加浮動式快捷圖示控制
- 同音字聯想功能（獨家首創）
- 筆跡簽名
- 筆跡學習
- 全彈性用戶自訂面板
- 自我教學系統
- 手寫萬用手冊（獨家首創）
- 及其他多樣實用功能

Magic Paintboard

Seeking a total solution to satisfy the children's painting desire has been our long term effort.

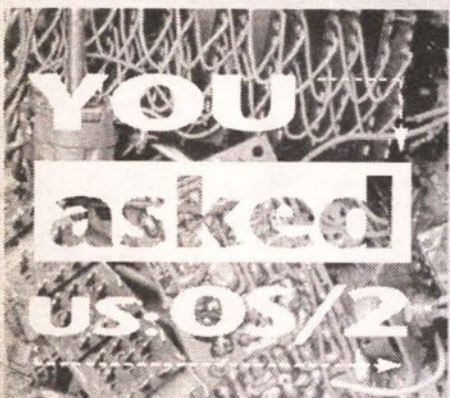
DEALERS
WELCOME

RICHMOND DEALER

快達

Instant Solutions
Tel: (604) 273-0383

AOL browser gets cold feet



Q I have a client that insists on using AOL (sigh), but I can not get the AOL browser to work. All the other parts to the AOL suite work fine. The browser will start and somewhere in loading the first or second page it will freeze the entire computer, requiring a cold boot. The system is a P166, 32 MB RAM, Warp V3 with FP26.

Any ideas?

Thanks, Bart

A Kevin Linfield responds: Not having used AOL, I can't be sure what the problem is, but I do know that you can use Netscape Navigator with AOL's TCP/IP. Once you are connected to AOL, simply run the OS/2 (or Windows) version of Netscape. You could also try it on a computer that doesn't have Fixpak 26.

Works harder?

Q With respect to IBM Works for Warp 3, was there an upgrade (i.e., grammar checker or thesaurus)?

John

A Kevin Linfield responds: There is still no grammar checker for the IBM Works word processor, but there has always been a thesaurus. When running the word processor, pull down the Document menu and select Synonyms (or press shift-F7). The version that came with Warp 3 has been upgraded to version 2.1, which you can get from the Internet FTP site hobbes.nmsu.edu in the `/os2/patches` directory. Note that OS/2 Warp 4.0 includes an updated IBM Works v 3.0.

Roll up rolled away?

Q You mentioned a while ago about an undocumented feature to allow the rollop button in PM windows in Warp 4, but I can't remember the syntax. Could you refresh my memory?

Jonathan

A Kevin Linfield responds: The rollop feature was present in the beta version of OS/2 4.0 (Merlin), but for whatever reason, IBM removed it from the final version. You can get the same feature from X-it, a shareware WPS enhancer located on Hobbes.

E-mail curiosity

Q I enjoy reading your OS/2 articles and value them as a rare source of good OS/2 information. I wanted to get your quick recommendations for e-mail programs. Since getting on the Internet, I have been using the original Web Explorer and Ultimail that came with OS/2 Warp. I recently installed Netscape Navigator 2.02 and started using that mail program for e-mail. I found it very awkward and buggy relative to Ultimail (I currently only have 8 MB RAM). The Navigator browser is good, but I have decided to stick with Ultimail for e-mail. I was wondering if I am missing something. Is there a Eudora for OS/2?

Thanks in advance for your help, Ed

A Kevin Linfield responds: Running Netscape with less than 16 MB of RAM is not advisable, but I personally have found its mailer to be quite stable and easy to use. You don't mention what fixpak for OS/2 you have, but you might want to install Fixpak 26 to make sure your system is up to the most current level. As for mailing programs, the best PM mailer is (in my opinion) Mail Reader/2. It is shareware, and you can download a copy from Hobbes. Another popular choice is PMMail (also shareware) and I'm sure that you will find both of these significantly better than Ultimail. And no, there is no Eudora for OS/2.

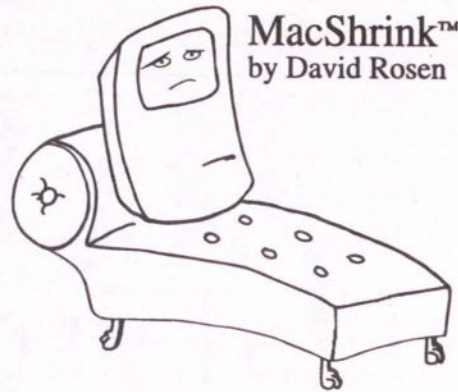
CD won't speak up

Q I was wondering if you will be able to help me solve the following problem: I recently installed OS/2 Warp 4 on a Cyrix 686-150+ machine. Everything seems to be okay except I am unable to get sound when playing music CDs through the multimedia folder of OS/2. All other folders that utilize sound are working fine, it is just the CD-player that doesn't work. I reinstalled OS/2 a couple of times, but still have this problem. Thank you in advance.

Robert

A Kevin Linfield responds: First and foremost, is your hardware set-up correctly? Can you plug a pair of headphones in the stereo jack on your CD player and listen to it there? Did you connect the output of your CD player into the audio in-port of your sound card? In most cases, this is the problem. If you can play music CDs under other operating systems, then you should try another CD player for OS/2. CD-in-a-Box is freeware and it is the one I use and highly recommend. It is available from my freeware page (<http://www.to2.org/freeware/>)

Kevin Linfield is a consultant and freelance writer. he can be reached via e-mail at linfield@torfree.net ♦



Q Dear Doctor: I recently upgraded the memory in my Mac 475. Before the upgrade, I had 8 MB of physical RAM and 16 MB of total RAM (since I was using RAM Doubler). After upgrading from 8 MB to 20 MB physical RAM, the Mac reported to me that I had 20 MB of physical RAM but only 13 MB in total RAM! What's even more bizarre is that when I took RAM Doubler out of my System Folder and restarted my Mac, I gained back the missing 7 MB of RAM (my system reported that I now had the correct 20 MB of RAM). What's happening? Does RAM Doubler only work with small amounts of RAM or is there a problem with my machine?

About This Macintosh			
Macintosh LC 475		System Software 7.1	
		© Apple Computer, Inc. 1983-1992	
Built-in Memory:	20,480K	Largest Unused Block:	6,432K
Total Memory:	13,312K		
System Software:	2,827K		

About This Macintosh			
Macintosh LC 475		System Software 7.1	
		© Apple Computer, Inc. 1983-1992	
Built-in Memory:	20,480K	Largest Unused Block:	37,968K
Total Memory:	40,960K		
System Software:	2,949K		

Signed: Emil, via an ISP.

A Dear Emil: RAM Doubler uses a complex memory mapping algorithm to figure out how to run more applications with the available RAM, essentially fooling the Mac into thinking it has more memory. The product works best when you're launching multiple, relatively small applications that don't use lots of memory (such as MacWrite Pro and other word processors). RAM Doubler isn't as helpful running applications that require large amounts of RAM (such as Adobe Photoshop and other graphic manipulation programs).

In your case, the problem is easily solved. For RAM Doubler to work with additional memory, you'll need to turn on 32-bit addressing. By doing this, your Mac will be able to recognize the additional RAM properly and RAM Doubler will work as well. Oh, there's one more thing you should know about your Mac. A few really old versions of software applications might not work under 32-bit addressing, so you might have to upgrade these programs to newer versions.

The Doctor.

You Asked Us

RAM Doubler paradox

Getting on the Apple Menu

Q Dear Doctor: How can I get things into the Apple Menu?

Signed: Vicki, via an ISP.

A Dear Vicki: The Apple Menu appears under the Apple logo and is located in the top left hand corner of the Finder's menu bar. As most Mac owners know, the Apple Menu gives you quick access to all the items that are stored in the Apple Menu Folder. Anything you place in the Apple Menu Folder—whether it's a file, program, or disk icon—becomes immediately available on the Apple Menu.

Simply click on the item you want to place in the Apple Menu. Next, choose "Make Alias" from the File menu. After a second or two, your Mac should generate an alias (essentially, a pointer to the item). The alias will have the name of the original item with the word "alias" tacked on. You'll also probably notice the name of the alias is in italics; this tells you that the new icon is simply an alias to the file and not the file itself. Drag the alias into the Apple Menu Folder (you'll have to open up the Apple folder itself to get to the Apple Menu Folder). In a few moments, you'll see your new item in the Apple Menu.

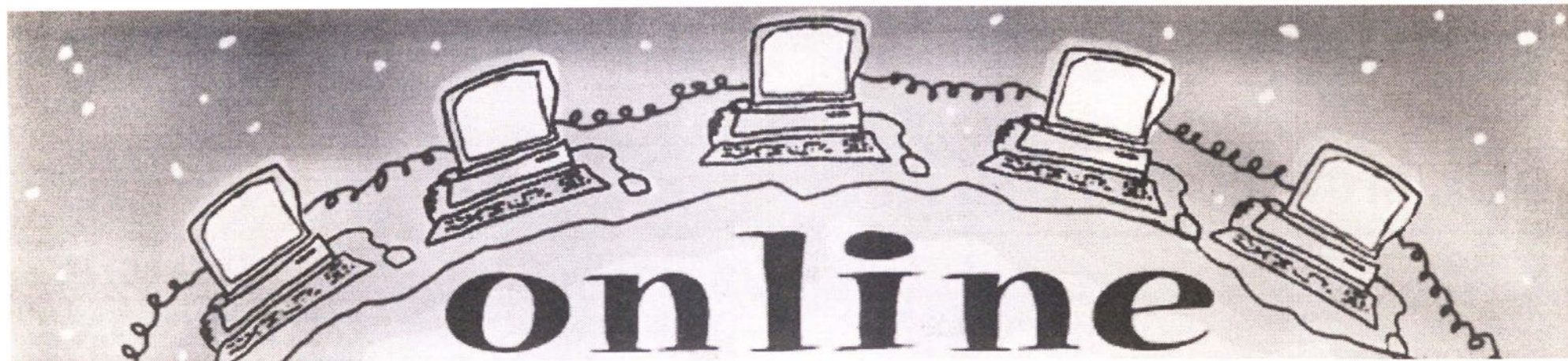
Advanced tip: if you're using the Apple Menu often, you'll probably recognize that Apple made it a bit tedious to add or remove lots of items using the above procedure. Here's a tip that will help.

Open the System Folder and find the Apple Menu Folder and select it. Then create an alias for the folder by selecting "Make Alias" from the File menu.

When the "Alias of Apple Menu Folder" appears in the file list, simply drag it out to the desktop in a convenient place. You may want to rename the alias to something more appropriate like "Place/Remove items in Apple Menu." When you want to add an item to the Apple Menu, just drag the icon of the file, folder, or program on top of the alias you created. When you want to remove something from the Apple Menu, just double click on the alias. The alias will show the contents of the Apple Menu and you can then drag the item you don't want into the trash. It will disappear from your Apple Menu in a few moments.

The Doctor.

You can reach MacShrink directly by sending your message to MacShrink@aol.com. Your last name and e-mail address will not be printed. Please note that due to the volume of mail, individual questions cannot be answered. All questions become the property of MacShrink and David Rosen ♦



Computer theft skyrockets

• • By CHRISTOPHER GULY • •

In the last 18 months, police in Eastern Ontario reported companies took a \$45 million loss as a result of stolen computer equipment.

Staff Sgt. Lance Valcour, who heads the Ottawa-Carleton Regional Police Services' break-and-enter squad, says that computer theft is one of the fastest growing crimes in Canada.

"It didn't exist a few years ago, but it's just recently exploded," Valcour says that's one of the reasons why Ottawa police established Canada's first Computer Component Theft Team. Valcour and another Ottawa-Carleton Regional Police officer will work with an officer from the RCMP on the new cyber-team.

Recent statistics indicate that Eastern Ontario is not the only region in Canada hit hard by computer theft. Across the country, police estimate that about \$1 billion worth of

computer components is stolen every year.

Watch your head

"Primarily, what's taken are memory boards and full computers," says Valcour. "The rest is thrown out the window."

Some of the areas most affected are the York and Peel regions of Toronto; Burnaby and Richmond in BC's Lower Mainland; and Saint John, New Brunswick, which is the hub of several call centres.

"This billion dollars worth of stolen equipment is just the tip of the iceberg," says Valcour. "If you have a computer worth \$5,000, you could have \$100 million worth of data on it."

MaryLu Korkuch, executive director of the Warren, New Jersey-based Technology Theft Prevention Foundation, recently told an Ottawa seminar on protecting electronic components that they represent the number one item on thieves' wish lists.

"Computer components retain 50 per cent of their value once they're stolen, compared with the average of 10 per cent," she said.

Korkuch, whose organization represents electronics firms, law enforcement agencies and insurance companies in the United States, says that computer theft is low-risk and high-gain.

"If you were stopped by a law-enforcement officer, what would you rather have on you—an ounce of cocaine or a Pentium chip? Both will get you about the same amount of money. But one will end you up in jail, the other will not."

Sock it to me

Tom Cornwell, vice president of worldwide electronics underwriting for Chubb Insurance Co., also based in Warren, says that cyber thieves need only do little to get away with a lot. "You can stuff a chip or a compo-



nent into your pants or socks, and walk away \$50,000 richer," he says.

Valcour says that offenders are typically young and sophisticated. Sometimes, they will take their cache of computer equipment to a "mom-and-pop" store and resell it. Or, they will be part of an organized crime network that uses computer components as cash to buy drugs.

Once cyber-thieves hit the grey market to sell their stolen goods, would-be buyers rarely think twice.

"Let's say you have a university student who is trying to do a university project on a

continued on page 68

NANTRON SYSTEMS LTD.



THE BEST DEAL IS HERE !

NOW WE OFFER YOU FREE INTERNET ACCOUNT, DETAILS IN STORE.

IP5-100	\$1398
IP5-120	\$1408
IP5-133	\$1448
IP5-150	\$1498
IP5-166	\$1658
IP5-166MMX	\$1788
IP5-200	\$1918
IP5-200MMX	\$2088
CX6x86-166+	\$1468

TRITON VX MMX DIMM PNP M/B
256KB PB CACHE
16MB DIMM RAM UP TO 128MB
1.7GB EIDE HDD MODE 4
1.44MB FUJITSU FDD
PCI 64BIT 2MB MPEG VIDEO
ON BD EIDE/EIO/PS2M PORTS
(2X16550+ECP+PS2 MOUSE)
14" .28 NI LR GR SVGA MONITOR
104K FUJITSU8725 WIN95 K/B
2B LOGITECH MOUSE W/PAD

INTERNET BROWSER ONLY \$1158

INTEL ATX M/B + PENTIUM-120 CPU + FAN
16MB RAM, 1.2GB EIDE HDD, 1.44MB FDD
2S(16550) 1P(ECP) 1M(PS/2) 1K/B(PS/2) 1G
33.6 INT FAX MODEM, 16BIT SOUND CARD
S3 1MB VIDEO, 14" NI LR GR DIGI MONITOR
ATX DESKTOP CASE, WIN95 K/B, MOUSE
WINDOWS 95, INTERNET PRELOADED
FREE INTERNET ACCOUNT

19" MID TOWER CASE WITH LED
33.6 INT. FAX MODEM
8X INT. EIDE CDROM DRIVE
(ADD \$20 FOR 12X)
16BIT3D PNP SOUND CARD
(ADD \$40 FOR AW32 CARD)
60W SPEAKERS AC POWERED
DESKTOP MICROPHONE
10 MPC CDROM TITLES '97
GROLIER ENCYCLOPEDIA
ANIMALS, ETC.

HOT PARTS SELECTIONS

MOTHERBOARD
TRITON VX PENTIUM-100/120/133.....\$268/288/318
TRITON HX PENTIUM-150/166/200.....\$408/558/828
486/5X86 PCI/ISA 133.....\$178
MEMORY
8/16/32MB SIMM RAM.....\$58/120/220
256KB PIPELINE BURST CACHE.....\$28
512KB*8 DRAMEDO RAM.....\$25/30
DRIVES
1.2/1.44MB FLOPPY DRIVE.....\$65/29
1.2/1.7/2.1/2.5/5.0GB HDD.....\$228/268/308/338/598
8X/12X EIDE INT CDROM DRIVE.....\$135/158
HP 4X/24X CDROM RECORDER.....\$888
PANASONIC 4X/24X CDROM RECORDER.....\$888
100MB ZIP INT/EXT. DRIVE.....\$228
JAZZ 1GB SCSI DRIVE.....\$528
TAPE DRIVE 800MB/3.2GB.....\$158/299
VIDEO CARDS AND MONITORS
ATI M64 PCI 2MB DRAM.....\$85
ATI 2MB 3D EXPR / 4MB PRO TURBO.....\$115/268
DIAMOND ST64 PCI 2MB EDO/VRAM.....\$150/299
PCI 64BIT 2MB EDO MPEG.....\$68
MONITOR .28 NI LR GR 14"/15"/17".....\$248/348/628
ATI TV TURNER.....\$158
DIAMOND TVTURNER/VIDEO CARD 2MB EDO.....\$288
SOUND CARD, MICROPHONE, AND SPEAKERS
MICROPHONE/EARPHONE.....\$15/8
SOUND BLASTER 16/32/64.....\$85/138/248
16BIT 3D/AW32 WAVE PNP SOUND CARD.....\$48/88
60W/120W/200W SPEAKERS (AC).....\$28/48/68
MODEMS
33.6/55.6 USR INT. FAX VOICE SPKPHN.....\$168
33.6 INT FAX/VOICE MODEM.....\$99/118
KEYBOARD, MOUSE AND CASE
FUJITSU 4725/8725 K/B.....\$68/28
MICROSOFT WIN95 ERGO.....\$88
WIN95 ERGO WITH TOUCH PAD.....\$99
MICROSOFT MOUSE/LOGITECH 3B ERGO.....\$35
LOGITECH 2B/3B.....\$18/38
CASE 13"/15"/19"/FULL.....\$58/68/78/118
SOFTWARE AND DISKS
WINDOWS 95 FULL VERSION.....\$138
10 CDROM TITLES (GROLIER 97, ETC.).....\$38
74MIN/650MB BLANK CD 10 PAK.....\$89
100MB ZIP DISK.....\$17
1GB JAZZ DISK.....\$108
CD COPY/BACKUP SERVICE.....CALL

* HIGH END *

IP5-166	\$2228
MMX	\$2368
IP5-200	\$2498
MMX	\$2698
CX166+	\$2028

GA586HX TRITON HX PNP M/B
512KB PIPELINE BURST CACHE
32MB EDO RAM EXP'L TO 128MB
2.5GB EIDE HDD MODE 4
1.44MB FUJITSU FDD
ON BOARD EIDE/FDD/EIO
2USP(16550) 1P(EPP) 1M(PS/2)
ATI 3D PC-TO-TV 2MB MPEG
15" .28 NI LR GR FLAT MONITOR
(ADD \$278 FOR 17" MONITOR)
FUJITSU 104 ENH. WIN95 K/B
3B LOGITECH PS/2 MOUSE & PAD
19" MID CSA TOWER CASE
12X EIDE CDROM DRIVE
SOUND BLASTER 32 PNP CARD
200W STEREO SPEAKERS
USR 33.6 INT VOICE FAX MODEM
(UPGRADABLE TO 55.6K)
MICROPHONE INCLUDE
FREE INTERNET ACCOUNT

MONTHLY PROMOTION:

1. ZIP DRIVE \$228, 100MB ZIP DISK \$16/EA
2. JAZZ DRIVE \$528, 1GB JAZZ DISK \$108/EA
3. 74MIN/650MB WRITABLE CD ONLY \$8.99/EA



NOT ONLY AFFORDABLE AND HIGH QUALITY COMPUTERS,

WE OFFER YOU TOTAL SOLUTIONS!

1745 Nanaimo Street (Near 1st Ave)
Vancouver, B.C. V5N 5C1
Tel:(604)253-1588 Fax:(604)253-8681



The Usenet and its newsgroups

•• By DAVID ROSEN ••

While the World Wide Web is a relatively recent phenomenon, the Usenet and its newsgroups are veterans of the Internet. Don't worry if you've never read a single newsgroup message before. By the time you've finished this article, you'll be reading newsgroups like a seasoned professional. Not only is navigating the Usenet easy, but reading its newsgroups can be fun and informative.

Before we begin our adventure this time, you should know I've included a brief glossary of newsgroup terms in a sidebar to this article. Other sidebars include a helpful guide to newsgroup netiquette as well as a list of interesting newsgroups to visit. Ready? Okay, let's start exploring!

What's in a name?

Newsgroups are simply electronic discussion groups on particular subjects. The Usenet is the collection of these newsgroups.

Imagine for a moment going to a large party at a friend's house and looking around the room. You might see a small group of doctors talking about health care, other folks might be talking about the upcoming baseball season, and a third group might be chatting about the stock market (or anything else). Newsgroups are just like these small talking circles at your party, with a few important differences.

First, there are literally *thousands* of newsgroups discussing just about everything, from "anarchy" to "zoology" and everything in between. Second, newsgroup discussions take place in a virtual room, with contributions coming from around the world. Third, newsgroup discussions happen over time, so you don't get the immediacy of a traditional conversation.

Newsgroup names usually reflect their focus. For example, the newsgroup "biz.jobs.offered" contains discussions about new jobs that employers have posted (and need filled). An important part of the Usenet culture is to respect the focus of the particular newsgroup and not post messages to groups that aren't related to your topic. More about this later.

Who can join the party?

You, of course. All you need is access to the Internet and a newsgroup reader (software that your provider gives or sells to you). You select specific newsgroups from a number of categories, or "hierarchies," to place in your private newsgroup list. You can add to or subtract from this list as your interests change. You can just read newsgroups that interest you or you can participate in the discussion by posting messages of your own. When you post a Newsgroup message, readers around the world will be able to read and respond to it—so think carefully before you post!

Each newsgroup consists of a list of messages posted to that group, along with the name of the person who posted each message. You can read a particular message in the newsgroup by clicking on it and selecting "read." You can also reply to it if you think you have something to add to the debate. Most newsgroup readers let you send private mail (back to the original sender) and public mail (posting to the entire newsgroup). Remember: if

you choose to reply publicly to the message, your message in turn will be read (and possibly commented upon) by others who read the group.

The truth is out there...or is it?

With millions of messages, newsgroups can be a tremendous source of information. But they can also be a tremendous source of *mis*-information, since everybody with an opinion and the ability to type can post their thoughts. Your chances of getting factual

information increase in a moderated newsgroup (see the sidebar), but the vast majority of newsgroups are unmoderated. Sometimes the free advice you get from a newsgroup can be very valuable; other times the information can be worth exactly what you paid for it.

There's also fraud. For example, a few people have been caught hyping their companies (and their stock) on the Usenet. They sign on as someone else and post "great" stock tips by supposedly satisfied investors in newsgroups. Other unscrupulous people have posted

thousands of messages to newsgroups they don't like, effectively blocking these newsgroups from being read by others.

Some last words before you begin your adventure. Veteran newsgroup folks always suggest you get the lay of the land and "lurk" in the background (see the sidebar) before you post. With well over 15,000 public newsgroups, you're sure to find some funny, informative, and thought-provoking groups out in the Usenet. I've included a few of these in the sidebar. Happy exploring! ♦



PLUS

Maximize your advertising
effectiveness by placing your ad in
all of our best spaces

Including

COVER PAGE
INSIDE FRONT
INSIDE BACK
BACK PAGE

and

reserve a FREE special feature article

(max 500 words + illustration on your company products. Copy and illustration to be supplied by advertiser)

and

with our special combination rate

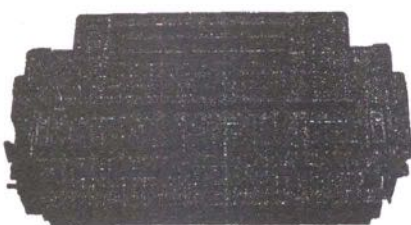
all ads will be on glossy paper, black and white plus one color of your choice

SPECIAL
FOR YOUR AD ONLY

ZEVEN ENTERPRISES INC.
411-2150 W. BROADWAY

TEL (604) 738-7577
FAX (604) 738-2077

Guess Which Cartridge Saved Our Customer \$70?



These days, the only way to tell our remanufactured cartridge from a new laser printer cartridge is the price. Our cartridge can save you as much as \$70 while delivering the same high quality and reliability you've come to expect from a factory original.



COST
Our remanufactured cartridges save you up to 50% of the cost of new cartridges. And *your savings don't end there*. We use replacement parts that exceed the specifications of factory original parts resulting in more durable longer lasting cartridges.

QUALITY

Have you tried a remanufactured cartridge lately? Over the past two years, the science of rebuilding toner cartridges for laser printers has improved dramatically. In fact, independent studies now show that remanufactured cartridges are higher quality than new ones.



In the old days, our industry used to simply refill cartridges. But times have changed and at **Vancouver TonerPlus** we pride ourselves on having the best cartridges in the industry. Every component of every cartridge is tested, inspected, and replaced as needed with higher quality parts than the originals. The result is a cartridge that produces better quality text and graphics than originally-manufactured parts.

GUARANTEE

When you put a toner cartridge in your machine, you expect great results for the life of the cartridge. And with a Vancouver TonerPlus toner cartridge, that's just what you'll get—cartridges that work the first time, every time.

And to back this up, every toner cartridge comes with our personal guarantee of your satisfaction. You won't find any loopholes in our warranty—if you're not happy with our products, we'll gladly refund your money with no questions asked.

**CALL VANCOUVER TONERPLUS TODAY AT (604) 552-3280
TO START SAVING MONEY ON TONER CARTRIDGES!**

—Always free pickup and delivery—

VANCOUVER
TONER_{plus}
CARTRIDGE REMANUFACTURING CORP.

Fax: (604) 552-3281

email: bill@vantplus.com

CHECK US OUT AT VANTPLUS.COM

—ASK US ABOUT OUR LASERSAVER 13 STEP MAINTENANCE PROGRAM!—

**CALL NOW TO RESERVE \$10.00 OR 10% OFF
YOUR FIRST ORDER. WHATEVER IS MORE!**



Desperately seeking cybersites. We want to know (in 50 words or less) who to visit on the Net, and why. Send your cyberprose to lara@tcpon.com

<http://www.swbs.on.ca/links/>

Caribbean Links is a starting point to three catalogues I maintain on Jamaican, Barbadian, and St. Kitts links. Sort of a mini-Yahoo.

Bernie Jansen

<http://www.interlog.com/~attar01/j-hunt/index.html>

Free information for job hunters and a free database to download.

Tareef Attar

<http://www.parlez.com/>

Check out this site and subscribe to "word of the day"—a free service that sends you an obscure word via e-mail daily, complete with a definition and the word used in a sentence to give it context.

Lauren Blankstein

<http://www.lungusa.org/hollywood/>

I am writing to announce the launch of the American Lung Association's "Thumbs Up! Thumbs Down!" Web site. This Web site allows users to rate Oscar-nominees according to their depiction of tobacco use.

<http://www.ultranet.ca/habdas/>

Digital photography page from an instructor from Vancouver, BC. Links include drivers, software updates, photography, education, Vancouver, and business.

Mark Habdas

<http://www.geocities.com/athens/2928/>

The Poetry Pond is one of the largest online poetry forums. This page features poetry from mainly unpublished poets. Poetry submissions are welcome. If you are looking for some good poetry, then this is the place to visit.

Stephen C. Fuller ♦

Compter theft skyrockets ...

continued from page 66

286," explains Valcour. "For \$300 he can get a colour Pentium notebook and will say, 'Yes.'"

Ottawa's new computer crimes unit is modeled after similar units in the California cities Sacramento and San Jose, as well as Austin, Texas. Established in 1988, San Jose's high-tech unit was the first in the United States.

The FBI has also created a unit to patrol the Silicon Valley's 4,100 high-tech companies, and it appears to be effective in combatting computer theft. According to the FBI, the number of armed robberies involving computer components has decreased from 106 between 1994 and 1995, to less than 5 last year.

As a result, cyber-thieves have had to look elsewhere, and such Canadian centres as Ottawa, often referred to as Silicon Valley North with its 700 high-tech firms, has been an easy target.

"Thieves go where the money is," says Cornwell. "John Dillinger was once asked why he robbed banks. 'Because that's where the money is,' he said."

Between 1992 and 1993, Chubb reported US\$3 million worth of stolen computer components in Canada and the United States. That figure has since quadrupled and doesn't include internal theft, which Cornwell estimates accounts for almost three-quarters of all computer crimes. This can involve employees directly stealing or feeding information to a thief on the outside. It can also be an independent con-

tractor or someone posing as an employee, explains Korkuch.

"Background checks are not routinely done at a lot of companies," she says. "So a bad guy can falsify his employment application and walk right through the door."

Richard Firth, senior loss-control representative for Chubb Insurance Company of Canada, says that although his 30th-storey office has never been hit, another office in the building has.

Nice suit

"People came in dressed in suits and carrying briefcases, looking very official, picked up a laptop and walked out," he says.

Losses for companies don't end with stolen computers or components, says Cornwell. Insurance policies only cover hardware and software products, but not the information stored on them.

"There might be valuable research-and-development data or a customer list that could be worth \$200,000 or \$2 million to a company," he says. "Of course, a pricing list or customer list will only be a loss to a company if it gets into the hands of a competitor. But I heard of a small consulting firm that had 200 customers and lost its one and only list."

With specialized computer thieves lurking around, Firth says equipment security has to focus on two fronts. "Never put it beyond your competitors that they will steal what they want," he explains. "You have to consider that the competition wants what you have and then consider what the crook would want." ♦



C P I ' s c o m p l e t e g a m i n g g u i d e

Downloadable diversions

It's no secret there are thousands of great commercial game demos littering the Web. Large companies, such as Sierra or Activision, offer them for free so you can get a taste of what the full retail version is like, but often the most addictive games are the lesser-known shareware, freeware, and pre-release alphas and betas. Let's look at a few of these.

• • By MARC SALTZMAN • •

Q-Bob

Many of us Generation Xers have a soft spot for classic arcade favourites from the early to mid-eighties. There are some excellent PC clones, including versions of *Pacman*, *Donkey Kong*, and *Centipede*.

Nostalgic fans of *Q-Bert*, however, had only an adequate version to play after its uneventful debut almost two years ago.

Thanks to MoonRock Software, a far better Windows 3.1 and 95 version has just been released, with a few extra neat features. *Q-Bob* (version 1.2) plays similar to the pyramid-hopping, long-nosed creature we grew to love,



but has added new music and sound effects, cute intermissions, high-quality 256-colour graphics, a posting board for high scores on the Net, and the ability for one to four gamers to play a single round on the same PC! Navigate *Q-Bob* around the squares to advance to the next level, and avoid the deadly obstacles. You can sample a number of levels for free (with multiple skill settings), but you'll probably want to cough up the US\$15

to get a registration code to unlock the full game. Hop on over and download this fun diversion.

Redneck Rampage

Players of the testosterone-driven *Duke Nukem 3D* must have a

good sense of humour, by the very nature of the game. If you enjoy that boisterous first-person perspective shoot-'em-up style of game, then make sure you grab the alpha of *Redneck Rampage*. Using the licensed *Duke* engine, Xatrix/Interplay bring you a unique gaming experience.

Are you ready for this?! Your job here is to blow away aliens (posing as redneck "hicks") so you can help Leonard and Bubba retrieve their stolen prize-winning pig "Bessie." Although this alien business is probably an afterthought to avoid friction from special interest groups, *Redneck Rampage* is a hilarious spoof on the US Deep South. I dare you not to laugh as you hear clichéd slang such as "Get offa my laaand!" or "Holy Sheecaat" from overall-wearin', tobacco-spittin', butt-scratchin' rural folk.

Needless to say, this game is for mature audiences only, but I guarantee you'll be the envy of your friends with this hush puppy on your hard drive! Grab it for a howling good time.

Hardwood Solitaire II

As simple as it is, the Solitaire game that comes with Windows has served as an addictive time-waster for years. Many other, similar versions can be found on game sites on the Web, but last year's *Hardwood Solitaire*

(Silver Creek Entertainment) rose to the top of the heap for its realistic "cottage" feel.

Now, *Hardwood Solitaire II* boasts more great solitaire gaming, complete with stunning graphics, MIDI music, sounds effects, and a whole slew of new additions. The shareware version (available online) contains not only the classic "Klondike," but also five more games if you register: *Freecell*, *Fourteen Out*, *Pyramid*, *Golf*, and *Four Seasons*. Take a look at this screen shot and you'll see why you shouldn't pass up on this if you are a fan of solo card games!

Until next time, have fun and happy gaming! ♦



Pacman
<http://www.microsoft.com/games/arcade2/>
Donkey Kong
<http://www.champgames.com/download.htm>
Centipede
<http://cheesy.simplenet.com/cheesy.htm>
Q-Bob
<http://www.oz.net/moonrock/qbob.html>
Redneck Rampage
<http://www.interplay.com/games/redneck.html>
Hardwood Solitaire II
<http://www.silvercrk.com/>

RPC (Sales, Repair & Upgrade)

Prices subject to change without notice. MasterCard VISA Payment Accepted

RPC SYSTEMS

P-120PC	\$1270
P-133PC	\$1320
P-150PC	\$1360
P-166PC	\$1570
P-200PC	\$1860

- * Intel Pentium® Boxed Processor
- * Gigabyte M.board w/Triton Chipset
- * 16MB EDO RAM
- * 512KB Pipeline Burst Cache
- * 1.44 Mb Floppy Drive
- * 1.7GB EIDE Hard Drive
- * 2 serial, 1 Parallel, 1 Mouse Ports
- * PCI 64 Bit Video Card w/ 1Mb
- * Magnavox 14" Svga Monitor
- * NMB 104 Key Win95 Keyboard
- * 15" Tower Case w/ 230W CSA P/S
- * Logitech 3 Button Mouse
- * 2 Years Warranty

MONITORS & VIDEO CARDS

Magnavox 14" NI SVGA .28	\$270
Sceptre 15" NI LR Flat SVGA .28	\$375
Sceptre 17" LR Flat Screen NI SVGA	\$685
Samsung 15" Flat Screen NI,LR, SVGA	\$495
Samsung 20" GLs Monitor	\$1680
SONY 100sx 15"	\$600
NEC C500 15"	\$495
NEC XV17+ 17"	\$1030
SVGA Card 256K Exp. 512K	\$45
SVGA Card ISA 1MB	\$65
Cinus Logic SVGA Card 1/2MB PCI	\$59/\$69
Matrox Millennium 3D 2mb/4mb VRam PCI	\$279/\$379
Matrox Mystique 2mb/4mb SGRam PCI	\$195/\$229
Diamond Stealth 64 DRAM 1MB PCI	\$139
Diamond Stealth 3D PCI VRAM 2/4MB	\$260/\$325
Diamond Stealth 3D Edo-Ram 2MB/4MB	\$169/\$199
ATI 3D Xpression+ 2MB/4MB SDRam PCI	\$169/\$199
ATI 3D Pro Turbo 4MB/8MB SGRam PCI	\$269/\$419

MULTIMEDIA

16 bit sound card & 8x CD-ROM	\$178
2 Power Speakers w/ AC adapt	\$29
120 Watt speakers	\$49
Sound blaster 32 P&P	\$139
Sound blaster AWE 64 P&P	\$260
Discovery Awe64 kit	\$398
16 bit Sound Card	\$48
Sound blaster 16	\$89
8x speed CD-Rom	\$130
12x Speed CD-Rom	\$149
Adaptec SCSI CD-Rom Cntrlr w/ Software	\$85

We are a member of
Better Business Bureau

DRIVES & CONTROLLERS

1.7GB EIDE	\$290
2.1GB / 2.5GB EIDE	\$330/\$360
4GB EIDE (WD)	\$410
2.1GB / 3.2GB Ultra SCSI	\$485/\$550
4.3GB SCSI	\$1200
2.5" 1.3GB IDE for notebook	\$395
1.2MB 5.25" Floppy Drive	\$60
1.44MB 3.5" Floppy Drive	\$35
SyQuest 230MB drive w/ 1 disk	\$398
Conner 800MB tapebackup w/tape	\$210
Backpack 800mb parallel port backup	\$195
Seagate 8.0G Int/ext.tape backup	\$1230/\$1370
HP Surestore 5000E 4GB tape backup	\$1350
VLB EIDE Controller w/ Multi-I/O	\$40
VLB EIDE Cntrlr w/ Enhanced I/O	\$45
Adaptec 1522/1510 SCSI Cntrlr	\$125/\$105
Adaptec 2842A VLB SCSI Controller kit	\$350
Adaptec 2940/2940W PCI SCSI Cntrlr	\$295/\$350

MOTHERBOARDS (Latest Design)

486DX4-100PCI 256k w/ CPU, fan	\$190
486DX4-133PCI 256k w/ CPU, fan	\$200
P-100 256k w/ cpu, fan	\$310
P-120 512k w/cpu, fan	\$350
P-133 / 150 512k w/cpu, fan	\$395/\$440
P-166 / 200 512K w/cpu, fan	\$630/\$925

Printers

Raven Ls-6 1MB 600dpi Laser	\$585
Brother-641 Laser	\$450
Brother-660 2MB 600dpi	\$760
Okidata OL-4W Laser 600dpi	\$425
HP 340c portable	\$430
HP 690C Color Deskjet 600dpi	\$399
HP 820Cxi Color Deskjet 600dpi	\$545
HP 870Cxi Color deskjet 600dpi	\$680
HP LaserJet 5L 600dpi	\$570
HP LaserJet 6P 600dpi	\$1060
HP LaserJet 6MP 600dpi	\$1200
HP LaserJet 5 600dpi	\$1740
HP LaserJet 4V/4MV	\$2800/\$3990
Canon BJC-4200 / BJ-30	\$315/\$295

NETWORKING

Windows NT 4.0 Server w/5 licence	\$960
Windows NT 4.0 work station	\$350
Novell 3.12 upgrade (10 user)	\$1490
Novell 3.12/4.1 (5 user)	\$880/880
Novell 3.12/4.1 (10 user)	\$1880
Novell 3.12/4.1 (25 user)	\$2620/2480
Eagle 2000+ 16 Ethernet Card	\$100
IBM 16bit Ethernet 10Base-T Card	\$49
cable, connector, terminator & crimping tool	

Logitech Mouse	\$25
Toshiba 430CDT Notebook	\$3790
IBM Ethernet 10Base-T card	\$49
Sanyo 2x SCSI CD-ROM	\$99

Specials

We repair :
-Monitors
-Systems
-Printers



We upgrade laser printers

RPC

Computers Ltd.

1796 Renfrew St.
Vancouver, B.C.

(604) 255-1192

Fax: (604) 255-0002

Mon.-Fri. 9:30-6:00 Sat. CLOSED

NEEDS

to flourish

8:00 Kid's light on.

8:40 Bedroom light on.

9:30 Radio on.

7:55 Aptiva turns itself on.

Home Automation.

Aptiva's Home Director lets you turn lights and appliances on and off automatically. So you can set up routines that give your house that lived-in look even when you're not home.

The Home Director Starter Kit is available on the Aptiva C3X. It includes instructions, software, one lamp module, one appliance module and one serial interface module (with cable).

NO ORDINARY home.

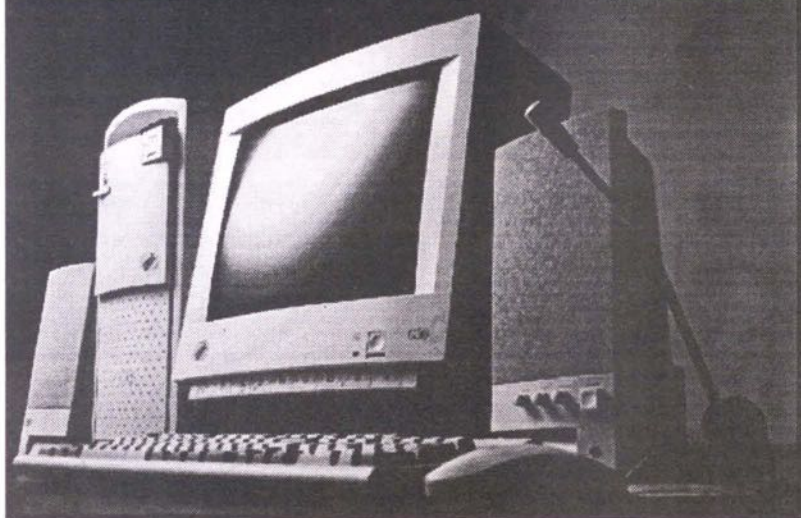
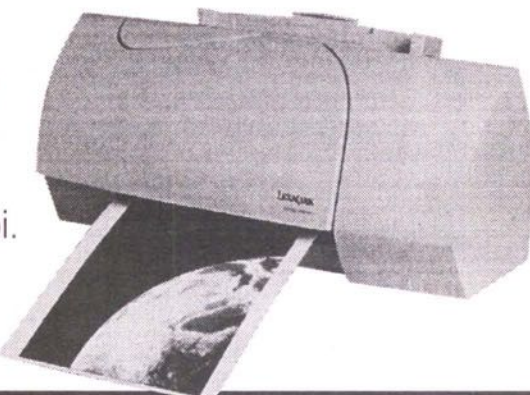
Take home an Aptiva from IBM and you're getting much more than an ordinary computer. With the latest technology and entertainment features it's the perfect PC for work or play.

Buy any IBM Computer and don't pay for 6 months* O.A.C. See store for details

LEXMARK™

The Lexmark 2030 printer is an easy choice for great quality color printing, durable performance and convenience.

Produce dynamic color images and crisp black text at 600 dpi. With a 1 year exchange warranty.



IBM

Aptiva™



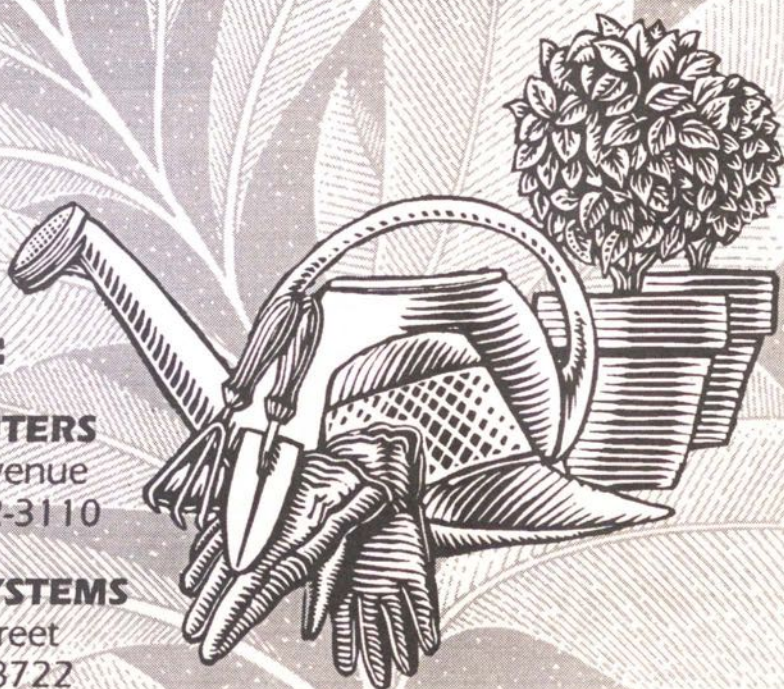
NOW AVAILABLE AT YOUR NEAREST AUTHORIZED RETAILER:

COMPU 2000
2811-2813 Kingsway
VANCOUVER • 604-436-2333

DOTCOM COMPUTERS
204-21183 88th Avenue
LANGLEY • 604-882-3110

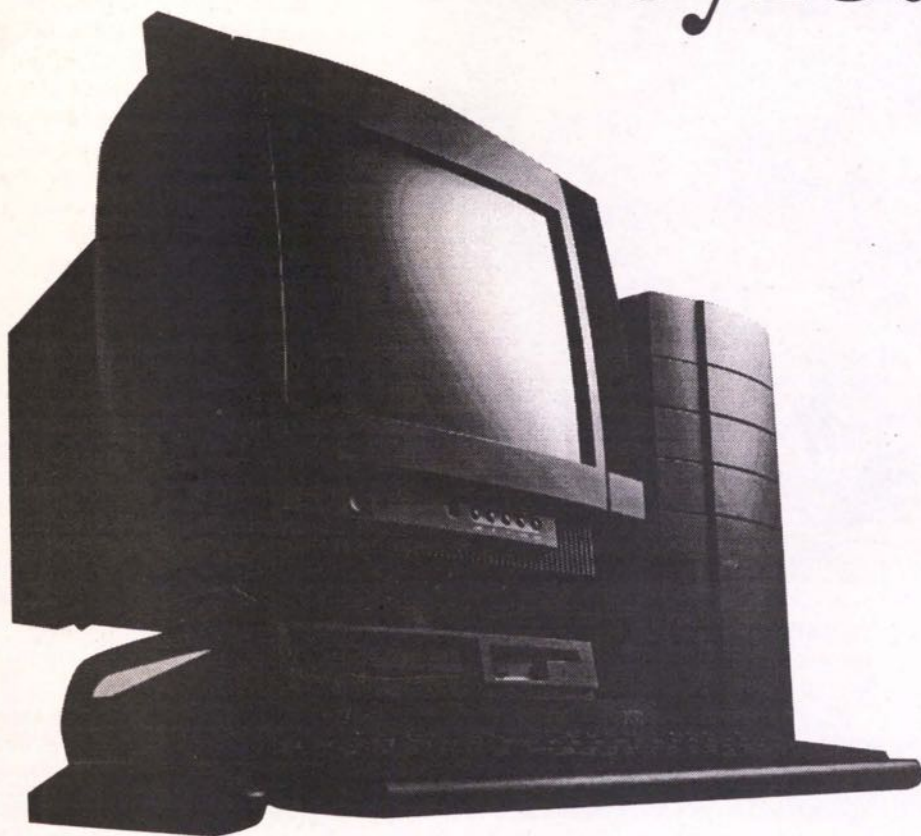
MS COMPUTECH
45610 Luckakuck Way
SARDIS • 604-858-8337

MICRO BUSINESS SYSTEMS
110-7110 120th Street
SURREY • 604-572-8722



for growth

NO ORDINARY style.



Multimedia Monitor

With speakers and a microphone built into the monitor, TheatreSound™ and a Wavetable Sound Card, your ears will be thrilled.

Hidden Tower

The mini tower can be stored up to six feet away from your desktop.

Total Image 3D™

Aptiva S Series with built-in 3D graphics for mind-blowing gaming action.

Stowaway Keyboard

When not in use, the slim keyboard fits neatly under the monitor and out of the way.

Lots of Cool Software*

Here's just a little of it: Lotus SmartSuite 96®, VR Soccer,™ MechWarrior 2® and Jungle Book. Plus tools to help get you up and running.

Service and Support

IBM Online Housecall® and around-the-clock help. 2-year limited system board warranty.³

Within 30 days of your purchase call 1-800-IBM-CALL ext 1500 with your 'S'uper selection. Choose from 'S'uper Year, 'S'uper Sound, 'S'uper Warranty, 'S'uper Talk or 'S'uper Learning.

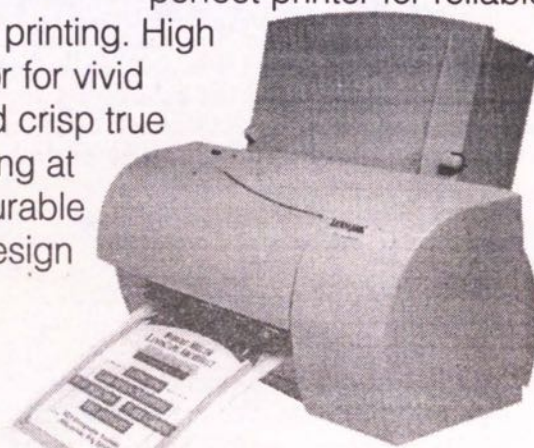
Aptiva™

Buy any IBM Computer and don't pay for 6 months* O.A.C. See store for details.



LEXMARK™

The Lexmark 2050 is the perfect printer for reliable, hassle-free printing. High quality color for vivid images and crisp true black printing at 600 dpi. Durable Lexmark design with a 1 year exchange warranty.



NOW AVAILABLE AT YOUR NEAREST AUTHORIZED RETAILER:

3J COMPUTERS

5305 Victoria Drive
VANCOUVER • 604-323-9859

DEXTON COMPUTERS

3112 Boundary Road
BURNABY • 604-433-9866

ATECH TECHNOLOGIES

3092 Cambie Street
VANCOUVER • 604-877-1812

PACIFIC OFFICE & THINGS

102-33255 South Fraserway
ABBOTSFORD • 604-853-5513

STUNNING

Tomb Raiders of the Lost Ark

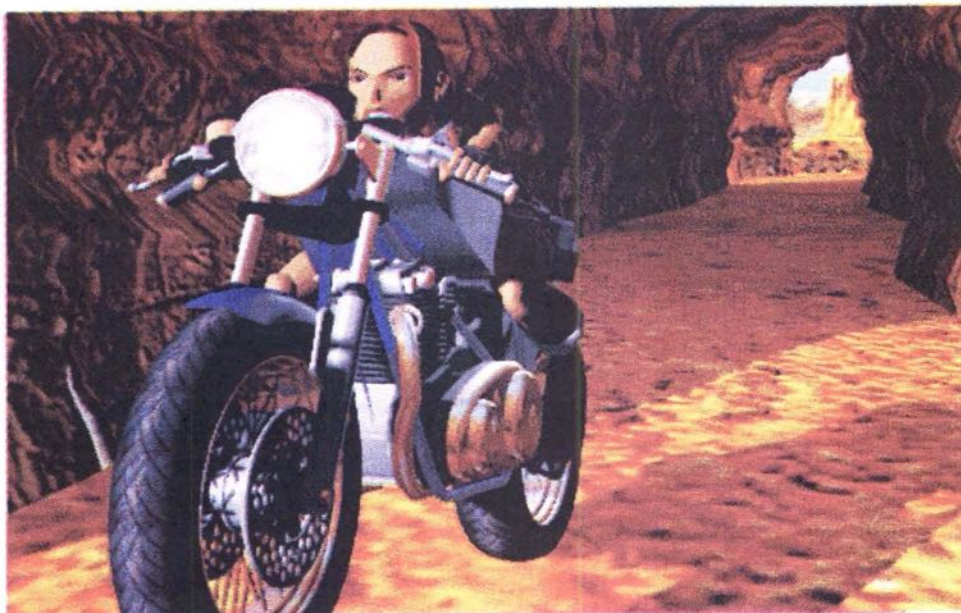
• By MARC SALTZMAN •

PC

action fans now have a new gun-wielding icon to look up to. No, he's not a six-foot tall macho dude with

bulging muscles, one-liners spewing out of the corner of his cigar-stained mouth. In fact, he's not a he at all. The new name in computer-game heroism is none other than Lara Croft, and she stars in one of the most successful multi-platform hits of recent gaming history: *Tomb Raider*.

The lack of female protagonists in computer games is common knowledge, and since more than 85 per cent of games sold in North America are to males, this is demographically justifiable. There have been a few exceptions in the adventure-game genre, such as Sierra's *Phantasmagoria*, and one of the first PC titles that gave you a choice between playing a man or a woman: I-Motion's 1992 hit *Alone in the Dark*. We have scarcely seen a female presence in the action-game category, though.



Indy-pendent female

Still, what makes Eidos' *Tomb Raider* a fascinating Indiana Jones-style ride is not just the fact the main character is a woman, but that it's a twist on the first-person, 3D genre that combines jaw-droppingly gorgeous graphics, smooth

animation, fast-paced action, and skillful puzzle-solving—with an interesting storyline to tie it all together.

Bagging a 12-foot tall Yeti obviously isn't enough to satiate Lara Croft's adventurous cravings, so she decides to accept an expedition from a wealthy businesswoman to travel the mountains in Peru, and recover a mysterious artifact from the tomb of Quolopez—strictly for "sport," of course. And so begins Lara's journey through 15 massive environments within four lost civilizations: the Incan city of Vilcabamba, the ancient ruins of Greece, a forgotten Egyptian empire, and long-lost Atlantis.

Controlling Lara's impressive athletic abilities and quick reflexes becomes second nature after a while: somersaults, long jumps, backflips, diving and swimming, scaling walls, and shimmying across ledges. If this sounds like a lot to learn, worry not—*Tomb Raider* comes equipped with a full training facility in Lara's own mansion before you tackle the lost tombs.

The controls may be easy to navigate, but there are many fierce, life-threatening obstacles set out to make your expedition difficult, including alligators, bears, wolves, giant bats, lions, dinosaurs, hired mercenaries, and more. Also, a handful of secrets are embedded in the game to ensure high replayability and encourage Internet discussions among fans for those interested in unlocking these concealed bonuses.

Paging Mr. Hitchcock

Tomb Raider utilizes a unique camera-angle style engine that allows you to see Lara and her environment at the same time. The "camera" swivels automatically according to your movements (similar to Activision's *Time Commando*) or you may grab hold of the controls yourself. This is something you just have to see to believe. Talk about interactivity!

As an added visual treat, *Tomb Raider* supports the hottest trend in PC gaming—3D accelerator video cards. Simply visit the *Tomb Raider* Web site at <http://www.tombrider.com/> and you can download patches and free demos for your 3Dfx Voodoo, Verite 1000, or Matrox Mystique boards (Eidos has announced they will not be producing ones for the Direct 3d, S3 ViRGE, or the ATI "3D Rage").

I have the Intergraph Intense 3D 100 card (formerly the "Reactor"), and have been playing the Rendition Ready version of *Tomb Raider* for a month and a half. Take it from me, the graphics in this enhanced version of the game are nothing short of spectacular. The card allows you to experience high-resolution graphics at increased frame-rates, eliminates texture pixelation, and lets players see distant objects more clearly for an unbelievable smoothed-out effect.

Unfortunately, there are two minor shortcomings in *Tomb Raider*—the absence of multiplayer support and level editors. Granted, in Eidos' defense, the storyline in the game does not allow for more than one player, but perhaps a separate mission that involves two opposing adventurers hired to retrieve the same object would make for fun head-to-head action. What would have also made this game better would be the ability to create and exchange your own personal levels via a free utility available on the CD-ROM or Internet (any hackers reading this?).

All in all, *Tomb Raider* is more than a fun, bug-free diversion—it represents the next stage in PC graphic performance, and may help break down the gender stereotypes found in many electronic interactive-entertainment products (remember the girls in Her Interactive's *Mackenzie & Co.*? Good grief!).

Help Lara kick some butt and let her take you along on an adventure you won't soon forget! ♦

SUBSCRIBE TO COMPUTER! PLAYER!

Taxpayers using Brian Costello HomeTax to complete their 1996 tax returns will be able to file those returns earlier than ever, long before users of any other tax software on the market.

"This year, the early edition is ready to file: it will enable taxpayers to file their returns weeks or even months ahead of the Revenue Canada deadline," explains Domenic Sicilia, president of HomeTax.

New features include Brian Costello tax tips, better print resolution of tax forms and schedules, 100 hours of free Internet access, an Internet upgrade to the Deluxe Edition, and an assortment of rebate

coupons and discounts on PC hardware and software products.

With HomeTax, the process of completing a tax return is made easier, quicker and more efficient. Users can go through the return form-by-form, or use the step-by-step "EasyPrep" feature. Calculations are performed automatically, information is entered in the correct place on each form, and HomeTax performs an accuracy check. HomeTax offers a range of help features including extended tech support by phone as well as 24-hour Internet assistance.

The HomeTax web site is located at www.hometax.com/~hometax/.

Please send me a subscription to **Computer Player! Canada Computes! B.C. Edition** and enter me in the May 1st/97 draw for Brian Costello HomeTax. A one-year subscription costs \$29.95 (12 Issues) or \$49.90 for two-years (24 Issues) incl. GST to cover postage and handling.

I am paying the full amount, Payable to Canada Computes!, by ☐ Cheque or money order or, ☐ VISA ☐ Master Card# _____ Exp. _____

Name: _____

Company (if applicable) _____

Address: _____

City: _____ Prov. _____ Code: _____

Phone Number: _____

Subscriptions are transferable but non-refundable.

(604) 608-2688 Facsimile 608-2686

Send to:
SUBSCRIPTIONS
Computer Player!
Canada Computes!
BC Edition
503-425 Carrall St.
Vancouver BC V6B 6E3

info
box

Tomb Raider, from Eidos Interactive. PC CD-ROM. \$59.99.

System requirements: Pentium 60 (Pentium 90 recommended), 8 MB RAM, 20 MB free hard-drive space, SVGA VESA local bus graphics card, double-speed CD-ROM drive; most major sound cards, game pads, and joysticks are supported.

Tomb Raider is also available for the Sony PlayStation and the Sega Saturn.

Megalomaniacs, rejoice!

Get ready to crush the stars in your fist—

Help,
I'm being oppressed!

Getting your fleet kicked around the galaxy? Try some of these handy cheats. Just hold down the ALT key and type the following:

ISEEALL: instant omniscience.

CRUNCH: finishes a colony's project.

MENLO: finishes current research project.

EINSTEIN: gives you all research knowledge in every field.

MOOLA: a quick 1000 billion credits is added to your treasury.

CANBEONLY1: all computer opponents turn on you!

Be sure to download the newest (March 3, 1997) patch to update MOO2 to version 1.3. It can be found at <http://www.microprose.com/corporatedesign/techsupport/techsupp.html>

• • By WILLIAM A. WOOD • •

Master of Orion II: Battle at Antares is the sequel to the wildly successful turn-based strategy game *Master of Orion*. Taking a terrific science-fiction game of galactic exploration and conquest and making it richer and more challenging, Microprose has created an updated hybrid that works.

The concepts and setup of MOO have remained. You control a race of creatures (human or otherwise) as it expands from its home planet to spread the banner of your dominion throughout space. You are in charge of colonizing new planets, researching vital scientific advances, designing and building starships, and trading with, spying on, and attacking your neighbours (think *Civilization* in space and you won't be far wrong).

The game has been greatly expanded, however. There can now be more than one habitable planet per star system, for exam-

ple, and (hooray!) players can customize their race rather than accepting the preset bonuses and penalties. The research element is ~~en~~complex than in MOO, requiring that some hard choices be made.

In addition, various elements of another Microprose product, the excellent strategic fantasy game *Master of Magic*, have been added to the mix. As a result, colony management is much more detailed (and time-consuming,

some gamers have grumbled); you now have to construct your colonies building by building, and shuffle



your citizens into specialized job categories (the standard food/production/science triangle). Also, you can now hire leaders (AKA heroes in *MOM*) to help both your colonies and your fleets.

These changes and additions mean maintenance of a large empire can become quite a chore. The various windows for controlling the action are well laid out, however, and there are quite a few features to assist the budding tyrant (building queues and an autobuild button, to name but two).

Looking good, your highness

Overall, the game looks great. The SVGA

graphics are nice and sharp, and the planets are attractively depicted. The diplomacy and research animations are still clunky, though (the "GNN" broadcast that announces notable galactic events

got a much needed facelift, however). The background music is lovely (another *MOM* contribution).

Perhaps the biggest difference in



MOO2 is, as the title forewarns, the genocidal raiders from Antares, who appear at random from hyperspace to, as they explain it, "purify the galaxy." So, besides conquering all of your opponents or winning an election in the Galactic Council, you can now win the game by seeking out and conquering the Antaran homeworld—a Herculean task, to be sure! ♦

Our games contest winner



Congratulations to Tim Lin, winner of the CP! gaming contest. Tim won a copy of Blizzard's new hit *Diablo* after naming most of the game images featured on February's cover.

The images featured were:

1. *Phantasmagoria* by Sierra
2. *Assassin 2015* by Inscape
3. *Riven* by Cyan
4. *Vampire Diaries* by Her Interactive
5. *Command & Conquer: Red Alert* by Westwood Studios
6. *Shivers* by Sierra
7. *Crusader: No Remorse* by Origin
8. *The Neverhood* by Dreamworks Interactive
9. *Obsidian* by SegaSoft.
10. *Ripper* by Take 2
11. *Myst* by Cyan

Thanks to all who entered—and keep your eyes peeled for future contests. ♦



info box

Master of Orion II: Battle at Antares, from Microprose. DOS/Win95 CD-ROM. \$65-\$75. System requirements: 486 DX/4 100 MHz PC (Pentium recommended), 8 MB RAM (16 MB under Win95), double-speed CD-ROM drive (faster recommended!), SVGA graphics, 75 MB hard-drive space.

NEW COURSE

Study at home... become a George Brown Electronics Technician

Electronics background not essential!

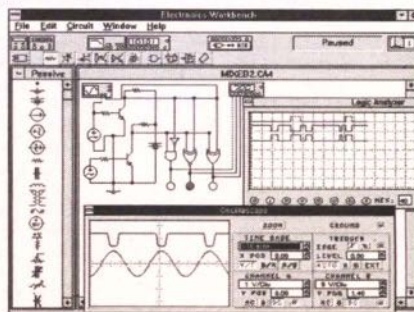
This unique CD-ROM based learning program supported by qualified George Brown tutors includes the easy-to-use simulated electronics lab—

Electronic Workbench®
the electronics lab in a computer.™

- Easy at-home learning!
- Quality instruction—low tuition!
- Chart your future in electronics today!



George Brown
The City College



Call now:

1-888-553-5333

NETLINK COMPUTERS

5068-B Kingsway, (2 Blocks East of Metrotown Center) Burnaby, V5H 2E7
Tel: (604)451-8682 Fax: 451-8611 <http://www.netci.com> Email: info@netci.com
Hours: M-F: 9:30AM to 6:30PM, Saturday: 10:00AM to 5:30PM

System 1 (PCI) System 2 (PCI) System 3 (PCI)

Cyrix 6x86Processor-based Upgradable Systems

6x86-120 (P150+)	\$989	6x86-120 (P150+)	\$1383	6x86-120 (P150+)	\$1782
6x86-133 (P166+)	\$1059	6x86-133 (P166+)	\$1353	6x86-133 (P166+)	\$1852

Intel Pentium & Pentium Pro Processor-based Upgradable Systems

P-120 Triton-VX	\$998	P-120 Triton-VX	\$1393	P-120 Triton-HX	\$1790
-----------------	-------	-----------------	--------	-----------------	--------

P-133	\$1033	P-133	\$1428	P-133	\$1828
-------	--------	-------	--------	-------	--------

P-150 Triton-VX	\$1120	P-150 Triton-VX	\$1515	P-150 Triton-HX	\$1913
P-166 Triton-VX	\$1272	P-166 Triton-VX	\$1668	P-166 Triton-HX	\$2065
MMX P-166 Triton-VX	\$1400	MMX P-166 Triton-VX	\$1797	MMX P-166 Triton-HX	\$2191
MMX P-200 Triton-VX	\$1686	MMX P-200 Triton-VX	\$2085	MMX P-200 Triton-HX	\$2484
		PRO-200 ATX	\$2222	PRO-200 ATX	\$2622

- 8MB 60ns EDO, 256K BurstCache
- 1.3GB EIDE hard drive, Mode 4
- 3.5" 1.44MB floppy disk drive
- PCI EIDE 2x16550UART
- Cirrus Logic 5446 PCI video card 1MB DRAM, Full Screen MPEG
- 14" Monitor N.I.L.R., 1024x768, .28 dp
- 13" Mini-tower case 230W
- Logitech 2B Mini mouse
- 104 Windows 95 Keyboard
- 2 Year Parts and Labour Warranty



Options:

15" N.I.L.R. \$89 16MB EDO \$45
Multimedia 8x CD, SB16, Speaker \$228

Options:

32MB EDO \$95 2.1GB Hard drive \$45
10X /12XCD-ROM Drive \$18/39

Options:

Matrox 2W \$88 2.5/3.1GB HD \$48/98
15" SONY SX \$228 SB32 PnP \$68

Win95 Full \$125 NT Workstation 4.0 \$268 MS Home (6 titles) \$85 MS Nature K.B. \$68 MS Office Pro 97 \$439

SupraExpress 33.6 Voice Fax Modem Int. V.34 with 1 Month Full Internet Access, \$118

All prices are cash discounts and subject to change without notice. Limited warranty.

Tel: 451-8682 Fax: 451-8611 Email: info@netci.com Internet WWW: <http://www.netci.com>

(Notice: Please visit our web site or kingsway store for latest system price.)

MOTHER BOARD

M535 Triton II 430VX 256K 75-200MHz MMX 2 Dimm	\$128
Shuttle Hot-557 Pentium 430VX 2 Dimms USB Ready	\$149
QDI Explorer-II Speed Easy EIDE, New Jumperless	\$145
256K Pipeline Burst Cache, Triton II chipset, Flash BIOS	
ASUS P/I-P55T2P4 w/ EIDE, high speed IO AT Style	\$189
512K Pipeline Burst Cache, Triton II 430HX, Flash BIOS	
ASUS P/I-P55TVP4 w/ EIDE, high speed IO	\$168
256K Pipeline Burst Cache, Triton II, Flash 430VX	
ASUS P/I-P55T2P4 w/ EIDE, high speed IO ATX	\$195
512K Pipeline Burst Cache, Triton II, Flash 430HX	
TYAN TOMCAT III Dual Pentium Socket 7	\$338
512K Pipeline Burst Cache, Triton II, Flash, 8 RAM slots	
Intel Mari-2 w/ EIDE, USB Adaptor Ready	\$188
512K Burst Cache, Triton II 430HX, Flash ATX Style	
Intel Venus Pentium Pro w/ EIDE, high speed IO	\$298
256K Burst Cache, ATX Style AMI Flash BIOS	

INTEL Pentium /MMX /PRO CPU

Pro-200 P120/133 P150 P166 MMX P166 MMX P200	
Scall	\$149/\$189 \$238 \$388 \$528 \$799

AMD CPU Cyrix/IBM CPU

K5-P90 K5-P100 K5-133 6X150+ 6X166+ 6x200+	
\$98 \$108 \$128 \$159 \$189 \$328	

RAM (Call 451-8682 for latest price)

4MB 4 EDO 8MB 8EDO 16MB 16 EDO 32MB 32 EDO	
\$29 \$30 \$55 \$55 \$112 \$122 \$219	

EIDE HARD DRIVES

WESTERN DIGITAL	
Western Digital 1.3 GB 10ms 5200 128K AC2100A	\$262
Western Digital 1.6 GB 10ms 5200 128K AC21600	\$275
Western Digital 2.1 GB 10ms 5200 128K AC22100	\$313
Western Digital 2.5 GB 10ms 5200 128K AC22500	\$345
Western Digital 3.1 GB 10ms 5200 128K AC23100	\$388
Western Digital 4.0 GB 10ms 5200 128K AC24100	\$488
Quantum	
Quantum 2.1 GB 10ms 5400 128K Fireball	\$308
Quantum 2.5 GB 10ms 5400 128K Sirocco	\$338
Quantum 3.2 GB 10ms 5400 128K Fireball	\$375
Quantum 3.8 GB 10ms 5400 128K Fireball	\$415
Seagate	
Seagate 1.28GB 12ms 4500 64K ST31276A	\$248
Seagate 2.16GB 10ms 5400 128K ST32140A	Scall
Seagate 2.5 GB 10ms 5400 128K ST52520A	\$328
Maxtor	
Maxtor 1.3 GB 12ms 4480 128K M71336A	\$249
Maxtor 1.7 GB 12ms 4480 128K M81750A	\$275
Maxtor 2.0 GB 12ms 4480 128K M72004A	\$355

SCSI HARD DRIVES

Quantum	2.1 GB	10ms	5400	128K	TM2160s	\$448
Seagate	1.08 GB	10ms	4500	128K	ST51080N	\$348
Seagate	2.1 GB	10ms	5400	512K	ST32430W	\$895

PRINTER /SCANNER/CAMERA

Canon	
BJC-240 Color	\$228
BJC-4100 /4200 Color	\$298/318
LBP460 Laser 600dpi	\$339
Stylus Color 400/600/800	\$328/call
Stylus Pro for PC & Mac	\$530
Photo PC Camera	\$589
Hewlett Packard	
DeskJet 690C /820CX/870CX	399/538/688
LaserJet 5L 600dpi 1MB	\$545
LaserJet 5 600dpi	\$1730
LaserJet 6P /6MP 600dpi	\$965/1230
ScanJet 4S Serial /5P /4C	\$278/538/1189

MULTIMEDIA

Labtec LCS-2612 20W 3D Sound w/ Subwoofer	\$148
Yamaha	
M7 /M15 /M20 DSP SPKs	\$65/89/105
M10H Subwoofer 25W	\$139
SoundBlaster 16 PnP	\$85
SoundBlaster 16 PnP IDE	\$95
SoundBlaster 32 PnP OEM /AWE64 PnP Full	\$128/239
Discovery Kit 12X AWE64 PnP 9 Titles 10Wx2	\$359
External CD-ROM Case IDE to Parallel Port	\$99
Hitachi /SONY 16X EIDE CD-ROM	\$189
Acer 12X /Pioneer 12X EIDE	\$138 /155
Panasonic EIDE CD-ROM Int. 8X /12X	\$128/148

NETWORKS

CNET 16BIT /PCI 32Bit Combo (COAX & RJ-45)	\$49/68
CNET 32BIT PCI 10/100Mbps RJ45 Only	\$79
3COM XL PCI 3C900 Combo (Retail)	\$178
3C905 PCI Fast Link 10/100BaseT (OEM)	\$138
D-Link 5-Port Hubby /CNET 8-Port Hub	\$115/139
APC Back-UPS Pro PnP 280/420/650	\$199/338/428

CONTROLLERS

16 bit Super I/O 2s, 1p, 1g w/16550x2	\$18/\$35
IOmega SCSI PCI 32bit Controller 50pin H/D	\$128
SCSI ISA Adapter 1522A/1542F	\$89/279
SCSI PCI Adapter 2940 /2940U /2940UW	\$248/259/318
SCSI PCI Adapter 3940UW Multichannel	\$589

KEYBOARD, MICE & CASE

BTC 104 Windows 95 Keyboard	\$22
Fujitsu 8725 /4725 /Focus 2001	\$38/59/48
Liteon Win95 Natural K.B. with TouchPad	\$85
Logitech 2B Mouse / 3B MouseMan	\$22/35
Logitech Bus/TrackMan Combo Marble	\$85/105
13" /15" /19" /24" AT Tower case	\$49/59/79/125
17" /19" /24" ATX Tower case	\$118/148/168

SOFTWARE

CorelXara for Windows 95	\$249
MS Access V7.0 for Windows 95 Full /Up	\$389/138
MS NT Server 4.0 Full /Up	Scall
MS Exchange Server /w 5 Clients for NT 3.51	\$1238
MS Office PRO 97 for Win95 (OEM)	\$488
MS Plus 95 / Publisher 97	\$68/95
MS SQL Server 6.0 for NT Full /Up	\$1218/599

Tape Drive & Removable Storage

IOmega Zip Drive(OEM) IDE /Para.	\$189/208
Zip Drive 100MB SCSI /Para.	\$255/255
Jaz Drive 1G SCSI /Int. Ext.	\$499/628
IOmega Jaz PC 1GB Disk	\$125
Ditto Easy 2GB Int. /Ext.	\$199/278
Ditto Easy 3200 Int. Ext.	\$288/368
ISA Adaptec 1505 for SCSI Zip /PCI Jaz Jet SCSI	\$58/129
Jaz Traveller Parallel Port to SCSI for Jaz Ext. Drive	\$79
TAPE 3M 800MB /2.0GB /3.2GB	\$39/31/49

MODEM

SupraExpress 33.6 V.34 Voice/Fax Int. PNP	\$118
Sporster 56K Int. Fax Modem	\$248
Sporster 56K Ext. Fax Modem	\$268
Sporster 33.6 V.34 Int. /Voice (OEM)	\$130/139
Sporster 33.6 V.34 Ext. /Voice (Retail) (\$50 Rebate)	\$215/248

VIDEO CARD

3D Xpression+ PC2TV 2M SDRAM	\$159
3D Pro Turbo PC2TV 4MB SGRAM	\$249
3D All-In-Wonder PC2TV 2M EDO	\$338
ATI Video Boost 1 MB EDO /2MB EDO	\$85/99
ATI TV Tuner for 3d Xpression	\$139
ATI Graphic Pro Turbo 2/4M VRAM	\$299/499
Stealth 3D 2/4MB EDO	\$148/178
Stealth 3D 2/4MB VRAM	\$238/338
STB LightSpeed 2MB DRAM 128bit Digital Video	\$184
PCI Millennium 2 /4 VRAM	\$239/348
PCI Mystique 2 /4 SGRAM	\$179/229
TV Tuner /Media XL MPEG	\$178/419
S3 3D Virge 2MB EDO 3Games /4MB	\$95/125
Cirrus 5446 64bit MPEG 1MB /2MB	\$48/68
Trident 3D PC2TV Full MPEG1MB 3 Games /2MB	\$89/105

MONITOR

ADI 15" 4V /17" 5V N.I. L.R.	\$438/749
Proview N.I. L.R. 28 Digital 14" /15"	\$249/338
Daytek N.I. L.R. 28 Digital 15" /17"	\$368/770
Sceptre 15" P53 17" P73/P73A	368/668/750
DX15T 15" .25, Trinitron	\$509
700T 17" .25 Trinitron	\$899
OptiQuest V775 26 1600x1280 /AcerView 76ie	\$858 /768
SONY 15" 100SX Super Fine .25	\$548
SONY 17" 200SX /SF .25	\$899/1338
NEC 15XV+ /17XV+	\$628/968
NEC C500 /M500 15" N.I. L.R.	\$468/\$563
NEC M700 17"	\$1068

OCLI Glare/Guard Screen Filter

Standar 500 (Hangers) 15" /17" /21"	\$60/95/145
Maximum Plus (Wrap Around) 15" /17" /21"	\$129/177/265

Full
Internet Access
Email address, Personal home
page, no setup fee, 75 Hours
\$17.95/month

For Latest System Price
Please Try Out Our
Instant Quotation
Available at our store and
<http://www.netci.com>

Best for
Internet

April '97

Specials!

Epson Color400 720dpi \$338
IOmega Zip Drive IDE Int.(OEM) \$189
IOmega Jaz 1G \$498 Int. \$628 Ext.
U.S.R. Sportster Int. Voice Modem
\$139 33.6K / \$239 56K
Panasonic 12X CD-ROM \$148
ATI All-In-Wonder 3D PC2TV
w/ TV Tuner 2MB EDO exp. 4MB \$338
OptiQuest V775 .26 1600x1200
\$858
EDO 8/16/32MB \$58/112/225
KAO/SONY/Pioneer CDR 74 Min. \$10.50

Advertisers

3D Micro	.....5
3J Computers	.....34
Able Computer Rentals	.....61
ACCA ACCESS	.....62
ACCO Computer	.....31
ADDAX Computers	.....22
Adanced Plus Computers	.....37
AE Electronics Corp.	.....17
Alouette Laser Products Inc.	.....48
Arete Computers	.....28
Astel Enterprises Ltd.	.....49
ATIC Computer	.....16
Beckman Computer	.....51
Benchmark Communications Inc.	59
BIS Information	.....64
Bic Computers	.....61
Buy & Sell Press	.....61
CAAST	.....9
Caron Vatures	.....35
CE Computer Outlet	.....53
Cody Books Ltd	.....33
Come Enterprises LTD	.....26
ComPro Information Inc.	.....63
Cyberus Online	.....45
Danby Systems Division	.....61
Data Recovery	.....61
Econ	.....33
Elitech System Ltd.	.....13
Faronics Technologies Inc.	.....75
Games Lovers' Library	.....8
Global Ink	.....61
Golden Top Computer	.....30
GPOBOX.COM	.....36
Half Price Computer Books	.....48
IBM	.....70, 71
IC Technology	.....36
ICI Infowave	.....19
Imagi.Net	.....24, 40
Instant Solutions	.....63
Interaction	.....47
Internet Direct	.....76
Internet Gateway	.....2, 11
Internet Light Speed	.....18
ISTAR Internet	.....20
JRS Computers Inc.	.....44
Lynx Internet	.....32
M.Y.O.B.	.....7
Maple Oak Computers	.....58
Maximum Internet	.....47
MDG	.....42
MDI Telecom	.....29,45
Metro Training Institute	.....47
Michael's Computer Shop	.....40
Microsea Computer Systems	.....60
Minitronics of Canada Ltd	.....61
Multilink	.....15
Multimedia Technologies	.....57
Mycrom Computers	.....51
Nantron Systems Ltd	.....66
Netlink Computer Inc	.....74
Nicer Technology Inc.	.....26
Nomi Computer-Sense	.....61
NRI/McGraw Hill	.....12
Nu-Age Computers Plus	.....3
Oasis Computer Inc.	.....24
PC Connections	.....41
PC-Top Computers & Electronics	49
PowerComp	.....55
Real Identification	.....61
RPC Computer Electronics	.....69
Sceptre Technologies	.....25, 52
ScotiaMcLeod	.....64
Shopco Food Services	.....29
Soho Skyway	.....61
Strong Computers	.....51
Subscription Form	.....72
System-pro Computers	.....37
Tangent Computers	.....56
The Newton Store	.....35
The Word Factory	.....61
The Works Computer Training	.....61
Tricera Computer Center	.....46
UAC-UP Education Expo Ltd.	.....33
United Computers	.....54
Valley Income Tax Services	.....61
Vancouver Toner Plus	.....68
Webworks	.....33
Zappa	.....38, 39
Zeven Enterprises Ltd.	.....8, 23,67
ZL Computers	.....50

BUILT TO LAST, NO CUSTOMER COMPLAINTS

The Best Computer at the Best Price



TFT \$3,995
Lease \$140p/m



Faronics Speedbook

- Intel Pentium 133 TCP Package
- 16MB RAM expandable to 48MB
- 256KB Pipeline Burst Cache Level Two Cache
- Removable 12.1" TFT LCD Module
- 2MB Video Card & 16 Bit Sound Card
- Full Software MPEG Support
- Two Type II or One Type III; Microsoft Plug and Play Compliant PCMCIA
- 10X CD-ROM • 1.3GB Hard Drive
- 1.44MB Floppy Drive
- CD-ROM and Floppy Drive can be used at the same time
- Windows 95 Keyboard
- Glidepoint Mouse
- NiMH Battery with dual battery capability; Plugs into either CD or FDD Bay
- Infrared Port, Serial Port, Parallel Port & External PS/2 Port
- MS Windows 95 OSR2 Release
- Targus Carrying Bag
- Beautiful Fit & Finish; Less than 3.2kgs.

MOBILE COMPUTING TO THE MAX!

Also available at
leading Computer
Stores



Solutions for Everyone

The Performer

Faronics 5166M32

- Intel Pentium 166 CPU
- 3.2GB Hard Drive
- 32MB EDO RAM
- Intel HX Chipset Mainboard w/512k PB Cache
- Flash Rom Bios
- Enhanced IDE Controller, Mode 4
- 2 High Speed Serial Ports & Enhanced Parallel Port
- 1.44MB Floppy Drive
- 12X CD-ROM
- ATI 3D Xpressions 2MB PCI Video Card 64 Bit
- * comes with Mech Warrior 2
- Enhanced Windows 95 Keyboard
- Microsoft Mouse w/Pad
- Faronics Mini-Tower Case
- U.S. Robotics 33.6 Data/Fax Modem
- PnP 3D Surround Sound Card
- Labtec Amplified Speakers
- 15" Faronics Monitor NI, Low Radiation
- Microsoft Windows 95 OSR2 OEM w/CD
- Microsoft Encarta, Works, Money & Two Family CDs

Performance Price
\$2,499.00

Upgrade to the MMX 166 \$99

Lease for
\$88p/m

Dream Machine

Faronics 5200M32

- Intel Pentium MMX 200 CPU
- 5.1 GB Hard Drive
- 64MB EDO RAM
- Intel HX Chipset Mainboard w/512k PB Cache
- Flash Rom Bios
- Enhanced IDE Controller, Mode 4
- 2 High Speed Serial Ports & Enhanced Parallel Port
- 1.44 MB Floppy Drive
- 16X CD-ROM
- Matrox Mystique 4MB Video Card w/Games
- Enhanced Windows 95 Keyboard
- Microsoft Mouse w/Pad
- Faronics Mid-Tower Case
- U.S. Robotics 33.6 Data/Fax Modem
- Creative Labs Soundblaster 64AWE w/Wavetable
- Labtec Amplified Speakers w/Subwoofer
- 17" Mag Innovation DX700T .25dpi Trinitron Tube
- Microsoft Windows 95 OSR2 OEM w/CD

The Dream can be yours for

\$4,399.00

Lease for
\$154p/m

Home/Office Complete Package

- Faronics 5133M16
- Intel Pentium 133 CPU
- 1.6GB Hard Drive
- 16MB EDO RAM
- Intel VX Chipset Main board w/512k PB Cache
- Flash Rom Bios
- Enhanced IDE Controller, Mode 4
- 2 High Speed Serial Ports & Enhanced Parallel Port
- 1.44MB Floppy Drive
- 8X CD-ROM
- 2MB PCI Video card 64 Bit
- Enhanced Windows 95 Keyboard
- Microsoft Mouse w/Pad
- Faronics Mini-Tower Case
- U.S. Robotics 33.6 Data/Fax Modem
- PnP 3D Surround Sound Card
- Labtec Amplified Speakers
- 14" Faronics Monitor NI, Low Radiation
- Microsoft Windows 95 OSR2 OEM w/CD
- Microsoft Encarta, Works, Money & Two Family CDs

This Unbeatable Family Package

\$1,749.00

Super Deals

Faronics 8 Port Hub	\$129
Faronics ISA Combo Card	49
Faronics PCI Combo Card	79
Norton Anti-Virus OEM Version 2.0	49*
Lotus SmartSuite 96 w/free upgrade to 97	49*
Microsoft Family Bundle: Encarta 97, Works, Money, Golf & Magic Schoolbus	89*

Microsoft Windows 95 OSR 2 Release	95*
Microsoft Office 97 Professional Full	399
* With System or Motherboard/HDD Purchase Only	
HP 680C DeskJet Printer (Only 5!)	\$329
HP 690C DeskJet Printer	379
Hayes Accura 28.8 External Modem (Only 6!)	169
U.S. Robotics 33.6 Fax Modem Internal	149

- 2 year parts & labour Warranty with guaranteed 2 day turnaround!
- NO LEMON WARRANTY - If you have more than 2 problems within 6 months with your new Faronics computer, we'll replace the whole unit free.
- No payments for 90 days available oac



DEALERS
WANTED

Microsoft



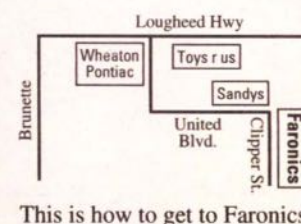
Faronics
TECHNOLOGIES INC.

540-8199

Check Out www.faronics.com

Prices and Specifications Subject to Change without Notice

57A - 53 Clipper Street, Coquitlam, B.C. V3K 6X2
Hours: Mon. - Fri. 9-6; Sat. - Sun. 11-5



This is how to get to Faronics.

Internet Solutions That Work

SERVICE

SUPPORT

RELIABILITY

SPEED

LOW MONTHLY RATES

MORE ON-LINE TIME

FREE SOFTWARE UPGRADES

ON-LINE HELP



Internet Direct
www.direct.ca

Call 602-1800 Or 1-800-232-4944
in Vancouver Outside the Lower Mainland